

NAPP2430244854

Ringer Federal 6 (30-015-33187)

Unable to calculate a volume.



Site Assessment and Reclamation Work Plan

**Murchison Oil & Gas, LLC
Ringer Federal #6
Eddy County, New Mexico
Unit Letter "P", Section 3, Township 25 South, Range 26 East
Latitude 32.154641 North, Longitude 104.275903 West
NMOCD Incident #: nAPP2430244854**

Prepared For:

Murchison Oil & Gas
5325 Sierra Vista
Carlsbad, NM 88230

Prepared By:

Hungry Horse, LLC
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November 2024

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HUNGRY HORSE, LLC

The following *Site Assessment and Reclamation Work Plan* serves as a condensed update on proposed reclamation activities at the afore referenced Site.

Background:

The site is located in Unit Letter P (SE/SE), Section 3, Township 25 South, Range 26 East, approximately six miles Southeast of Whites City, in Eddy County, New Mexico. The property is located on Bureau of Land Management land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The location is an SWD and tank battery; Latitude 32.154641 North, Longitude 104.275903 West. An area of interest was identified as having indications of contamination on the surface, characterized by limited or no vegetative cover. The NMOCD Form C-141 indicates a historic release of unknown volume. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Permitting Portal.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in a Gypsum Karst designated area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 2 and 3.

No water wells were located within a half mile of the release area. Therefore, as the site is also located in a Gypsum Karst designated area, the site will be reclaimed according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of reclamation. Web Soil Survey indicates the area is located in the Gypsum land Cottonwood complex comprised of loam soils with 0 to 3 percent slopes. NMBLM Seed Mixture 4 for Gypsum Sites will be utilized for seeding the area after reclamation activities are complete. Karst, Wetland, and Soil Maps are provided as Attachment I.



Proposed Reclamation Actions:

In accordance with NMAC 19.2.100.67 Regulations, and NMBLM Reclamation Objectives and Procedures, the following reclamation activities are proposed in an effort to advance the site toward approved closure.

- NMBLM will be notified two business days prior to commencement of reclamation activities.
- Based on sampling conducted by McNabb Partners on August 15, 2024, and delineation sampling conducted by Hungry Horse on November 1, 2024, it is proposed to excavate contaminated soil, sample, backfill with clean topsoil, and seed. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment IV.
- The area characterized by sample locations CS-01, SP1, and SP2, approximately 3,700 square feet, will be excavated to approximately six and a half feet bgs, or until closure criteria is achieved.
- The area characterized by sample location SP3, approximately 2,700 square feet, will be excavated to approximately three feet bgs, or until closure criteria is achieved.
- The area characterized by sample location SP4, approximately 1,800 square feet, will be excavated to approximately one-foot bgs, or until closure criteria is achieved.
- The area characterized by sample locations CS-02 and CS-03, approximately 4,000 square feet, will be scraped approximately six inches.
- The area characterized by sample location BG-02, approximately 1,000 square feet, will be excavated to approximately five feet bgs, or until closure criteria is achieved.
- Excavated contaminated soil, approximately 1,700 cubic yards, will be hauled to an NMOCD approved disposal facility.
- Upon completion of excavation activities, five-point composite confirmation samples will be collected from each of the excavation floors and sidewalls; with each sample representing no more than 200 square feet. Confirmation soil samples will be submitted to the laboratory for analysis of BTEX, TPH, and chloride.
- Upon receiving laboratory analytical results from confirmation soil samples, demonstrating constituent contaminant levels are equal to or below the strictest NMOCD Closure Criteria, the excavations will be backfilled with locally sourced, clean, non-impacted, material, of the same soil type as was excavated.
- Affected areas will then be covered with a cover top layer, which matches observable surrounding top layer thickness, of locally sourced, clean, non-impacted, topsoil, scarified and seeded with NMBLM approved Seed Mixture 4 for Gypsum Sites.
- A berm, approximately 130 feet in length, depicted in black on the Proposed Excavation Map, will also be installed on the South edge of the reclaimed area along the lease road. This will prevent vehicular access to the reclaimed area and divert water runoff from flowing across the reclaimed area. The Proposed Excavation Map is provided as Figure 4.
- Reclamation activities are expected to be completed within 30 days of receiving NMBLM approval of the Site Assessment and Reclamation Work Plan.



Sampling Plan:

Upon completion of excavation activities, NMOCD will be notified via C-141N (Notification of Sampling) two business days prior to collection of confirmation samples. Confirmation five-point composite soil samples will then be collected from the excavation floor and sidewalls, with each sample representing no more than 200 square feet. Confirmation soil samples will be submitted to the laboratory for analysis of BTEX, TPH, and chloride.

Restoration, Reclamation, and Re-Vegetation:

As the area of interest is not reasonably needed for production operations, the area will be reclaimed according to 19.15.29.13 NMAC. Based upon laboratory analytical results from confirmation soil samples, the excavations will be backfilled with locally sourced, clean, non-impacted soil, of the same soil type as was excavated.

The soil backfill will included a cover top layer, which matches observable surrounding top layer thickness, backfilled with locally sourced, clean, non-impacted topsoil to provide suitable material to establish vegetative growth. The area will then be contoured the site's existing grade to prevent ponding of water and erosion of the cover material. The affected area will then be tracked utilizing a dozer to ripple the soil to prepare the seed bed for seeding.

The affected area will then be seeded, via hand broadcast at double the recommended rate, with NMBLM Seed Mixture 4 for Gypsum Sites, free of noxious weeds, within thirty days following these completed reclamation activities. The site will also be monitored for growth and noxious weed management on a semi-annual basis until desired vegetation is achieved. NMBLM Seed Mixture 4 for Gypsum Sites is provided as Attachment III.

Limitations:

Hungry Horse, LLC, has prepared this *Site Assessment and Reclamation Work Plan* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



Distribution:

Murchison Oil & Gas

5325 Sierra Vista
Carlsbad, NM 88230

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2
811 S. First St.
Artesia, NM 88210

New Mexico Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

Figures

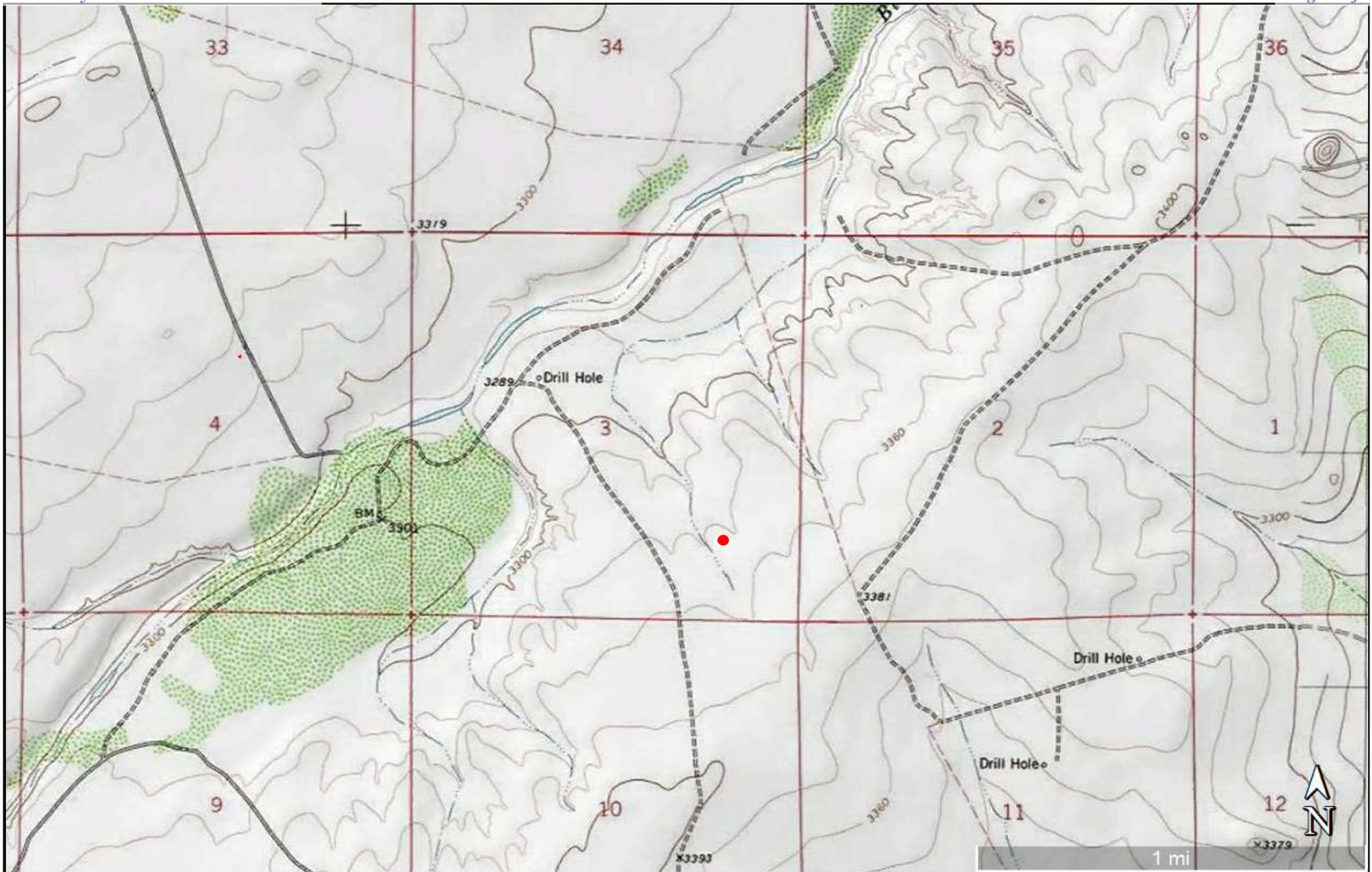


Figure 1

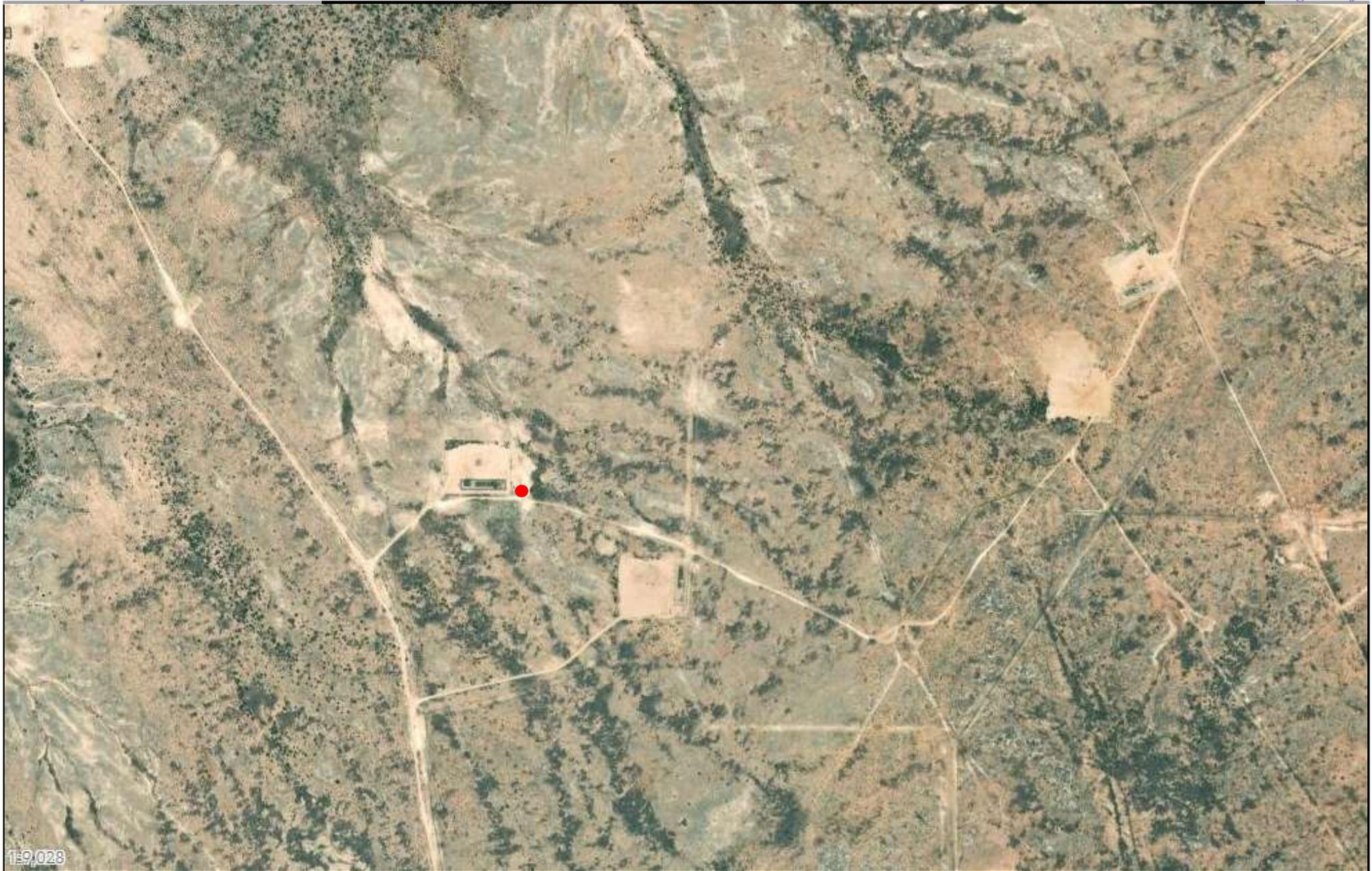
Topographic Map
 Murchison Oil & Gas
 Ringer Federal #6
 GPS: 32.154641, -104.275903
 Eddy County

Legend:

● Ringer Federal #6 Location

Drafted: dd
 Checked: bw
 Date: 10/22/24





1:9,028

Figure 2

OSE POD Locations Map
Murchison Oil & Gas
Ringer Federal #6
GPS: 32.154641, -104.275903
Eddy County

Legend:

● Ringer Federal #6 Location

Drafted: dd
Checked: bw
Date: 10/22/24



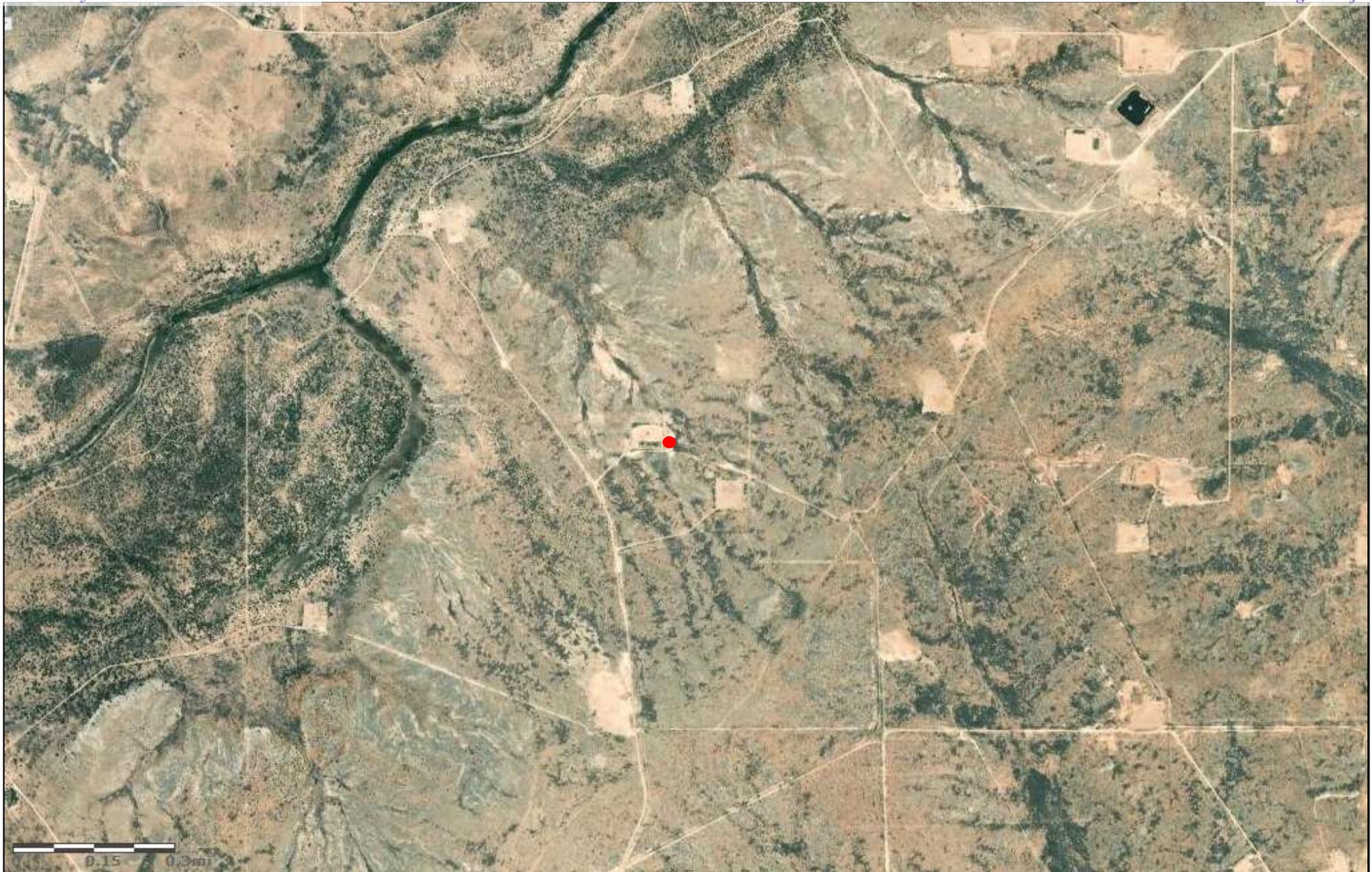


Figure 3

USGS Well Locations Map
Murchison Oil & Gas
Ringer Federal #6
GPS: 32.154641, -104.275903
Eddy County

Legend:

● Ringer Federal #6 Location

Drafted: dd
Checked: bw
Date: 10/22/24





Figure 4

Proposed Excavation Area Map
 Murchison Oil & Gas
 Ringer Federal #6
 GPS: 32.154641, -104.275903
 Eddy County

Legend:

- Area of Interest
- CS-01 McNabb Sample Location
- SP1 Hungry Horse Delineation Sample Location

Drafted: dd
 Checked: bw
 Date: 10/31/24



Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Murchison Oil & Gas
Ringer Federal #6
NMOCD Incident #: nAPP2430244854

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
CS-01	8/15/24	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,500
	8/15/24	2.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,720
	8/15/24	4.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,840
	8/15/24	6.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
	8/15/24	8.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
CS-02	8/15/24	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
	8/15/24	2.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	8/15/24	4.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
	8/15/24	7.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
CS-03	8/15/24	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
	8/15/24	2.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
	8/15/24	4.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
BG-01	8/15/24	8.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
	8/15/24	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
	8/15/24	2.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	8/15/24	4.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	8/15/24	5.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	8/15/24	7.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
BG-02	8/15/24	8.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	8/15/24	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,010
	8/15/24	2.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,060
	8/15/24	4.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
	8/15/24	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
8/15/24	7.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464	
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Murchison Oil & Gas
Ringer Federal #6
NMOCD Incident #: nAPP2430244854

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	51,200
	11/1/24	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP2	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,520
	11/1/24	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SP3	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,600
	11/1/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
SP4	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,560
	11/1/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
HZ1	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32
	11/1/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ2	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	11/1/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ3	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	11/1/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ4	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	11/1/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ5	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	11/1/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ6	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	11/1/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ7	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	11/1/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
HZ8	11/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
	11/1/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

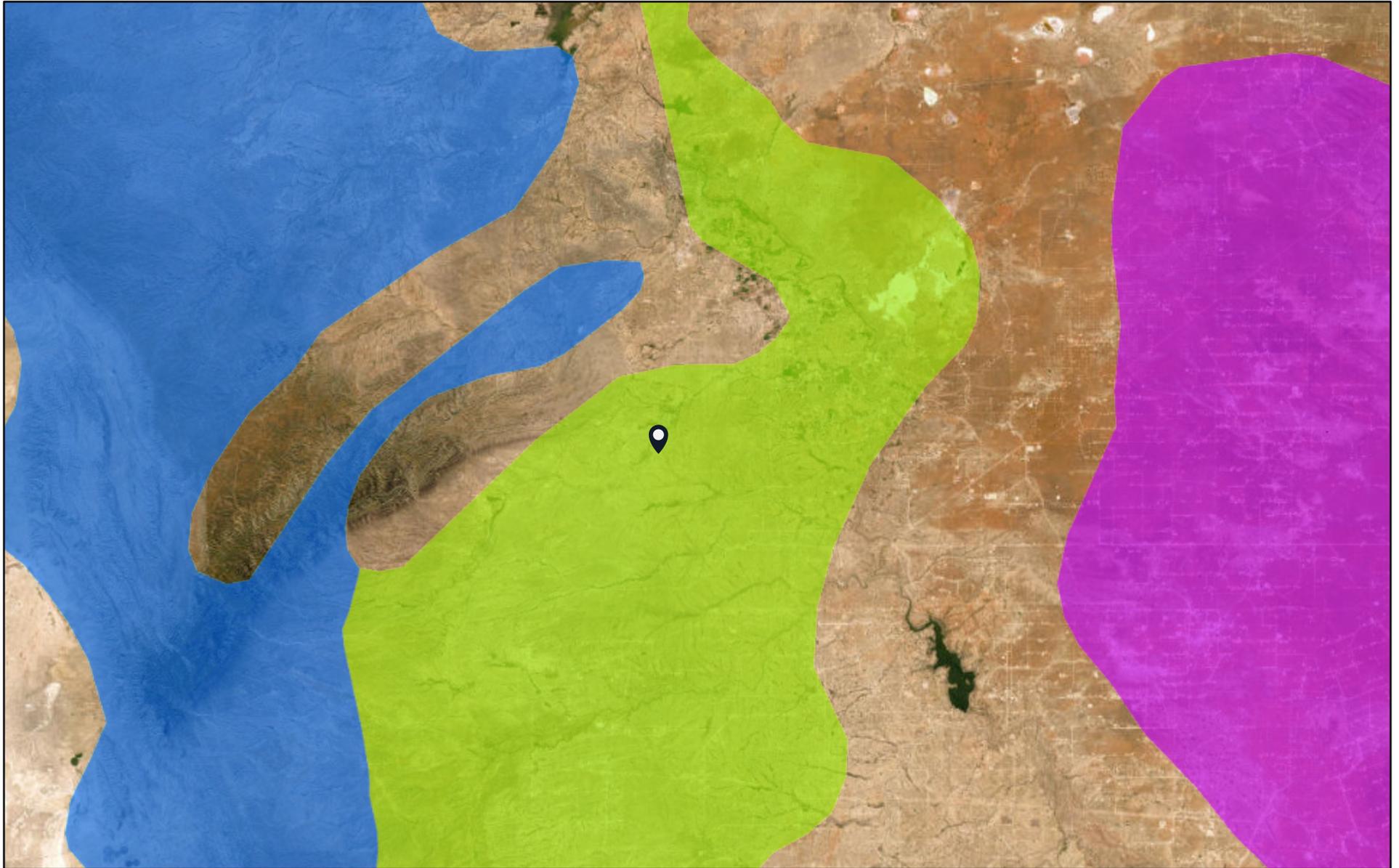
- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

Karst, Wetland, and Soil Maps

Ringer Federal #6



10/22/2024

Karst Type

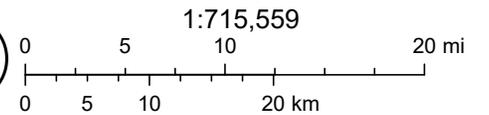
- Carbonate
- Erosional
- Gypsum

- Volcanic
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

150m Resolution Metadata



U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics



Ringer Federal #6



October 22, 2024

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Lake
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Other
- Estuarine and Marine Wetland
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

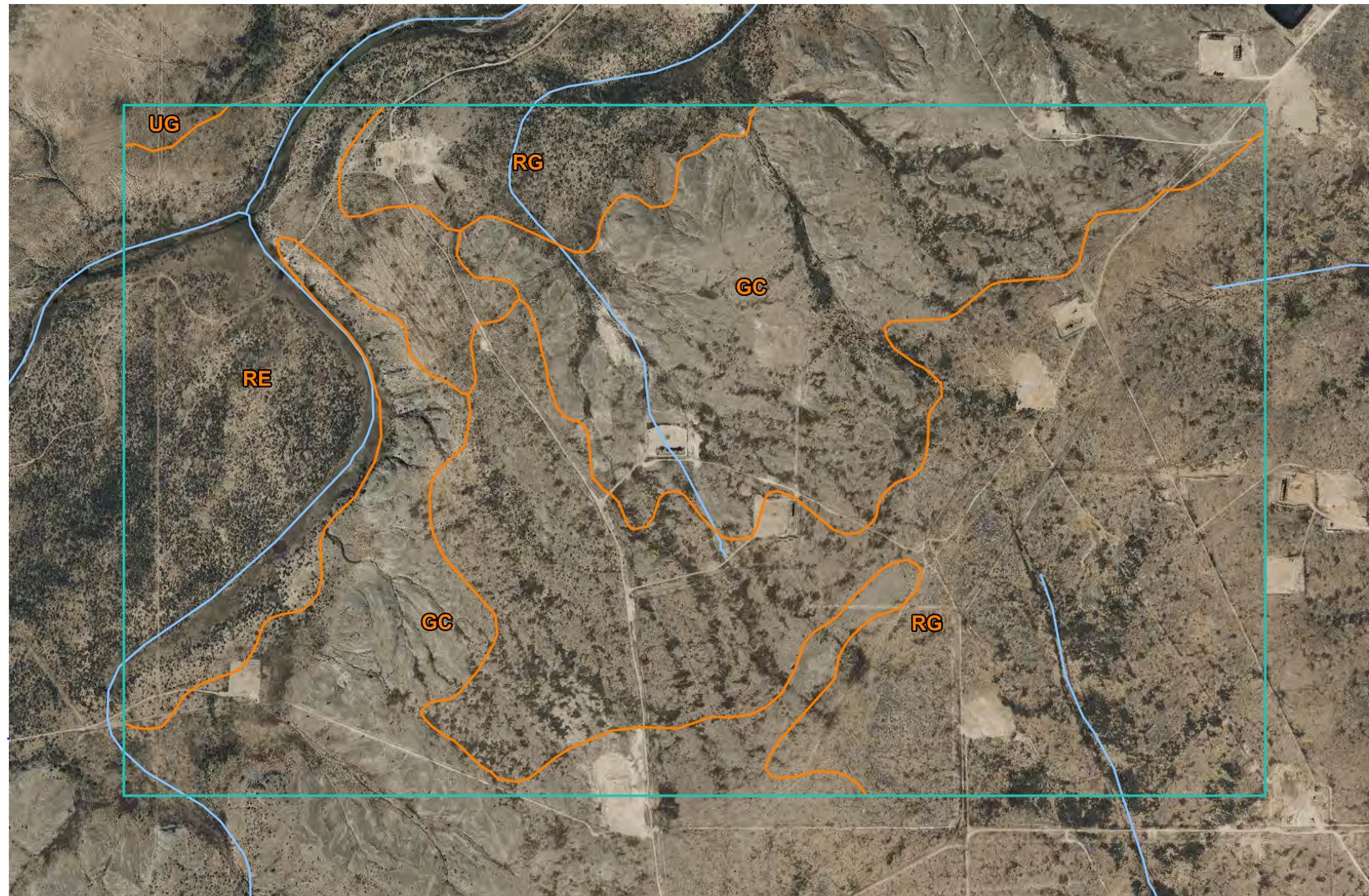
Soil Map—Eddy Area, New Mexico
(Ringer Federal #6)

104° 17' 35" W

104° 15' 30" W

32° 9' 51" N

32° 9' 51" N



32° 8' 42" N

32° 8' 42" N

104° 17' 35" W

104° 15' 30" W



Map Scale: 1:15,000 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84

Soil Map—Eddy Area, New Mexico
(Ringer Federal #6)

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.

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 20, Sep 3, 2024

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

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
GC	Gypsum land-Cottonwood complex, 0 to 3 percent slopes	404.5	36.5%
RE	Reagan-Upton association, 0 to 9 percent slopes	193.7	17.5%
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	504.3	45.6%
UG	Upton gravelly loam, 0 to 9 percent slopes	4.5	0.4%
Totals for Area of Interest		1,107.0	100.0%

Map Unit Description: Gypsum land-Cottonwood complex, 0 to 3 percent slopes---Eddy Area,
New Mexico

Ringer Federal #6

Eddy Area, New Mexico

GC—Gypsum land-Cottonwood complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4g
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 66 degrees F
Frost-free period: 190 to 225 days
Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 60 percent
Cottonwood and similar soils: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gypsum Land

Setting

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

Interpretive groups

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

Description of Cottonwood

Setting

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

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 60 inches: bedrock

Map Unit Description: Gypsum land-Cottonwood complex, 0 to 3 percent slopes---Eddy Area,
New Mexico

Ringer Federal #6

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 3 to 12 inches to paralithic bedrock

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.20 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: 15 percent

Gypsum, maximum content: 5 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 1.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: R070BB006NM - Gyp Upland

Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 5 percent

Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent

Ecological site: R070BC033NM - Salty Bottomland

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 20, Sep 3, 2024

Attachment II

Depth to Groundwater



New Mexico Office of the State Engineer

Wells With Well Log Information

No report data available.

UTM Filters (in meters):

Easting: 568280.58

Northing: 3557806.29

Radius: 805

* UTM location was derived from PLSS - see Help

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

Attachment III
NMBLM Seed Mixture 4 for Gypsum Sites

Mixture 4, for Gypsum Sites

The holder shall seed all the disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Alkali Sacaton (<i>Sporobolus airoides</i>)	1.5
DWS~ Four-wing saltbush (<i>Atriplex canescens</i>)	8.0

~DWS: DeWinged Seed

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

Attachment IV

Laboratory Analytical Reports



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

August 20, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: RINGER FED 6

Enclosed are the results of analyses for samples received by the laboratory on 08/16/24 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 01 (0.5') (H244987-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 01 (2') (H244987-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
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 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 01 (4') (H244987-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 01 (6') (H244987-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
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 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 01 (8') (H244987-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05		
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/19/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93		
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32		
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND						

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 02 (0.5') (H244987-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 02 (2') (H244987-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
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 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 02 (4') (H244987-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05		
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/19/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93		
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32		
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND						

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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

Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 02 (7') (H244987-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 03 (0.5') (H244987-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 03 (2') (H244987-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 03 (4') (H244987-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: CS - 03 (8') (H244987-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	QM-07	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	QM-07	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	QM-07	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	QM-07	
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/19/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16		
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55		
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND						

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 01 (0.5') (H244987-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 69.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 01 (2') (H244987-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 01 (4') (H244987-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 01 (5') (H244987-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 01 (7') (H244987-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 01 (8') (H244987-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 02 (0.5') (H244987-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 02 (2') (H244987-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 02 (4') (H244987-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 02 (4.5') (H244987-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC NABB SERVICES
 DIMITRY NIKANOROV
 P. O. BOX 5753
 HOBBS NM, 88240
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/15/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	RINGER FED 6	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: BG - 02 (7.5') (H244987-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.06	103	2.00	0.747	
Toluene*	<0.050	0.050	08/19/2024	ND	2.11	105	2.00	0.882	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.12	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	6.58	110	6.00	0.314	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	204	102	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (McNabb Partners), project details (Ringer Fed 6), a 'BILL TO' section for Murchison Oil & Gas, an 'ANALYSIS REQUEST' table with columns for Lab I.D., Sample I.D., Matrix, Preserv, and Sampling, and a bottom section for Relinquished/Received By, Verbal Result, and Sample Condition.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (McNabb Partners), project details (Ringer Fed 6), analysis request table with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling, and a bottom section for Relinquished/Received By, Verbal Result, and Sample Condition.

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



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

November 05, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: RINGER FEDERAL #6

Enclosed are the results of analyses for samples received by the laboratory on 11/01/24 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: SP 1 - SURF (H246693-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/04/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	51200	16.0	11/04/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: SP 1 - 8' (H246693-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/04/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/04/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: SP 2 - SURF (H246693-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/04/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/04/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	11/04/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: SP 2 - 8' (H246693-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/04/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: SP 3 - SURF (H246693-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/04/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: SP 3 - 3' (H246693-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/04/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: SP 4 - SURF (H246693-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2024	ND	1.89	94.3	2.00	12.2		
Toluene*	<0.050	0.050	11/04/2024	ND	1.83	91.4	2.00	11.3		
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	1.86	92.9	2.00	9.84		
Total Xylenes*	<0.150	0.150	11/04/2024	ND	5.54	92.3	6.00	9.50		
Total BTEX	<0.300	0.300	11/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1560	16.0	11/04/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80		
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28		
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: SP 4 - 1' (H246693-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/04/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 1 - SURF (H246693-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/04/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 1 - 1' (H246693-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/04/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 2 - SURF (H246693-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/05/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 2 - 1' (H246693-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2024	ND	1.89	94.3	2.00	12.2		
Toluene*	<0.050	0.050	11/05/2024	ND	1.83	91.4	2.00	11.3		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.86	92.9	2.00	9.84		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.54	92.3	6.00	9.50		
Total BTEX	<0.300	0.300	11/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/04/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80		
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28		
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 3 - SURF (H246693-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/05/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 3 - 1' (H246693-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2024	ND	1.89	94.3	2.00	12.2		
Toluene*	<0.050	0.050	11/05/2024	ND	1.83	91.4	2.00	11.3		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.86	92.9	2.00	9.84		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.54	92.3	6.00	9.50		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	199	99.7	200	2.80		
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28		
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND						

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 4 - SURF (H246693-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/05/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 4 - 1' (H246693-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	1.89	94.3	2.00	12.2	
Toluene*	<0.050	0.050	11/05/2024	ND	1.83	91.4	2.00	11.3	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.86	92.9	2.00	9.84	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.54	92.3	6.00	9.50	
Total BTEX	<0.300	0.300	11/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 5 - SURF (H246693-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	2.02	101	2.00	0.305	
Toluene*	<0.050	0.050	11/04/2024	ND	2.09	104	2.00	0.0235	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.11	105	2.00	0.201	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.28	105	6.00	0.0682	
Total BTEX	<0.300	0.300	11/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 5 - 1' (H246693-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	2.02	101	2.00	0.305	
Toluene*	<0.050	0.050	11/04/2024	ND	2.09	104	2.00	0.0235	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.11	105	2.00	0.201	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.28	105	6.00	0.0682	
Total BTEX	<0.300	0.300	11/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 6 - SURF (H246693-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	2.02	101	2.00	0.305	
Toluene*	<0.050	0.050	11/04/2024	ND	2.09	104	2.00	0.0235	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.11	105	2.00	0.201	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.28	105	6.00	0.0682	
Total BTEX	<0.300	0.300	11/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 6 - 1' (H246693-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	2.02	101	2.00	0.305	
Toluene*	<0.050	0.050	11/04/2024	ND	2.09	104	2.00	0.0235	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.11	105	2.00	0.201	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.28	105	6.00	0.0682	
Total BTEX	<0.300	0.300	11/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 7 - SURF (H246693-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	2.02	101	2.00	0.305	
Toluene*	<0.050	0.050	11/04/2024	ND	2.09	104	2.00	0.0235	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.11	105	2.00	0.201	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.28	105	6.00	0.0682	
Total BTEX	<0.300	0.300	11/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 7 - 1' (H246693-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	2.02	101	2.00	0.305	
Toluene*	<0.050	0.050	11/04/2024	ND	2.09	104	2.00	0.0235	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.11	105	2.00	0.201	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.28	105	6.00	0.0682	
Total BTEX	<0.300	0.300	11/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 8 - SURF (H246693-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	2.02	101	2.00	0.305	
Toluene*	<0.050	0.050	11/04/2024	ND	2.09	104	2.00	0.0235	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.11	105	2.00	0.201	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.28	105	6.00	0.0682	
Total BTEX	<0.300	0.300	11/04/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/04/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/01/2024	Sampling Date:	11/01/2024
Reported:	11/05/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/P SEC 3 T25S - R26E		

Sample ID: HZ 8 - 1' (H246693-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	2.02	101	2.00	0.305	
Toluene*	<0.050	0.050	11/04/2024	ND	2.09	104	2.00	0.0235	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.11	105	2.00	0.201	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.28	105	6.00	0.0682	
Total BTEX	<0.300	0.300	11/04/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/05/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Hungry Horse LLC), project details (Ringer Federal #6), and a table of analysis requests with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling results.

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

Form for signatures and dates, including 'Relinquished By', 'Received By', 'Delivered By', and 'Checked By' sections, along with contact information and remarks.

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company and project information, a 'BILL TO' section, an 'ANALYSIS REQUEST' table with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling, and a grid for test results (Chloride, TPH, BTEX 8021).

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

Form for signatures and dates, including 'Relinquished By', 'Received By', 'Delivered By', and 'Checked By' sections, along with a 'REMARKS' section containing '48 hr RUSH!' and contact information.

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
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Form containing company and project information, a table for sample analysis with columns for Lab I.D., Sample I.D., Matrix, Preservation, Sampling, and various analytes like Chloride, TPH, and BTEX 8021.

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

Form for Relinquished/Received By, Date, Time, Sample Condition, and CHECKED BY: (Initials) with handwritten signatures and dates.

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 400643

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 400643
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2430244854
Incident Name	NAPP2430244854 RINGER FEDERAL 6 @ 30-015-33187
Incident Type	Other
Incident Status	Remediation Plan Received
Incident Well	[30-015-33187] RINGER FEDERAL #006

Location of Release Source

Please answer all the questions in this group.

Site Name	Ringer Federal 6
Date Release Discovered	08/15/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Unknown Produced Water Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Legacy release of unknown source. Release extent currently being assessed.

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QUESTIONS, Page 2

Action 400643

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 400643
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 11/08/2024
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QUESTIONS, Page 3

Action 400643

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 400643
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	51200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	11/25/2024
On what date will (or did) the final sampling or liner inspection occur	12/25/2024
On what date will (or was) the remediation complete(d)	01/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	13200
What is the estimated volume (in cubic yards) that will be reclaimed	1700
What is the estimated surface area (in square feet) that will be remediated	13200
What is the estimated volume (in cubic yards) that will be remediated	1700

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 400643

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 400643
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff Facility, Orla, TX
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 11/08/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 400643

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 400643
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 400643

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 400643
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 400643

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 400643
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	11/8/2024
bhall	OCD will not approved the proposed depths or "areas of interest" but does approved the dig and haul remediation approach.	11/8/2024
bhall	Confirmation/final samples of the base and walls must be five-point composite samples representative of no more than 200 square feet. A C-141N (Notification of Sampling) two business days prior to collection of confirmation/final samples pursuant to 19.15.29.12 D.(1)(a) NMAC.	11/8/2024
bhall	This release is in an area not reasonably needed or production and subsequent drilling activities and must be reclaimed at the time of remediation pursuant to 19.15.29.13 NMAC.	11/8/2024
bhall	Confirmation/final samples must meet the most stringent closure criteria found on Table I of 19.15.29 NMAC.	11/8/2024
bhall	Submit a complete and accurate report through the OCD permitting website by 2/7/2025.	11/8/2024