



Remediation Summary and Closure Request

**Ridge Runner Resources Operating, LLC
Ringer Federal #2
Eddy County, New Mexico
Unit Letter "G", Section 4, Township 25 South, Range 26 East
Latitude 32.161919 North, Longitude 104.296837 West
NMOCD Incident # NRM2027443562**

Prepared For:

Ridge Runner Resources Operating, LLC
4000 N Big Spring Ste 210
Midland, TX 79705

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260
Office: (575) 393-3386

January 2025

A handwritten signature in black ink, appearing to read "Daniel Dominguez", is written over a horizontal line.

Daniel Dominguez
Environmental Director
ddominguez@hungry-horse.com

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HUNGRY HORSE, LLC

The following *Remediation Summary and Closure Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter G (SW/NE), Section 4, Township 25 South, Range 26 East, approximately five miles East of Whites City, in Eddy County, New Mexico. The property is located on private land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on a tank battery and well pad; Latitude 32.161919 North, Longitude 104.296837 West. The NMOCD Form C-141 indicated that on September 29, 2020 approximately 100 bbls of oil and 5 bbls of produced water were released to unlined containment due to a hole in the bottom of the tank. No fluid was recovered. 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 III and the results are depicted on Figures 2 and 3.

No water wells were located within a half mile of the release area. In addition, as the site is located in a Gypsum Karst designated area, the site will be remediated 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 remediation. Web Soil Survey indicates the area is located in the Reagan-Upton association comprised of loam soils with 0 to 3 percent slopes. As the affected area is located on a well pad, no re-seeding will be required. Karst, Wetland, and Soil Maps are provided as Attachment I.



Remediation Activities:

On July 9, 2024, a Site Assessment and Remediation Work Plan was submitted to NMOCD for approval. On July 25, 2024, the Work Plan was approved. Previously submitted pages of the approved Site Assessment and Remediation Work Plan are available on the NMOCD Permitting Portal.

From August 27 through September 19, 2024, the release area was excavated per the NMOCD approved work plan. The area characterized by sample location 12'N was excavated to an approximate depth of four feet bgs. The area characterized by sample location BG was excavated to an approximate depth of four and half feet bgs. The areas characterized by sample locations SP1 – SP4 were excavated to an approximate depth of ten feet bgs. Excavated contaminated soil was temporarily stockpiled onsite, within the excavated area, before transport to an NMOCD approved disposal facility.

The area characterized by sample locations SP1 – SP4 could not be fully excavated due the presence of process equipment and tank. Fencing around the bermed containment was opened to allow access for contaminated soil to be hydro-excavated from around process equipment. Hydro-excavated contaminated soil was transported to an NMOCD approved disposal facility. A backhoe was then utilized to complete excavation activities.

On September 20, 2024, Hungry Horse, LLC notified NMOCD that closure samples would be collected on September 24, 2024. NMOCD Correspondence is provided as Attachment II.

On September 24, 2024, twenty-eight composite confirmation soil samples were collected from the excavation floor and sidewalls, with each sample representing no more than 200 square feet. Soil samples FL1 through FL12 and SW1 through SW16, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of SW13 – SW16, which exhibited Benzene, TPH, and chloride concentrations in excess of NMOCD Closure Criteria. A deferral was requested for contaminated soil left in-situ beneath process equipment, to be remediated and reclaimed upon facility P&A.

On September 24, 2024, one composite confirmation soil sample was collected from the caliche backfill pit. Soil sample Caliche, was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in the submitted sample.

The initial excavated areas totaled approximately two thousand square feet and ranged in depth from four to ten feet bgs. During initial remediation activities approximately 670 cubic yards of impacted soil were excavated and hauled to an NMOCD approved disposal facility.

On October 10, 2024, a Remediation Summary and Deferral Request was submitted to NMOCD for approval. On October 10, 2024, the Deferral was denied. The tank and process equipment was then moved and excavation activities recommenced.



From October 21-29, 2024, the area was excavated. Excavated contaminated soil was directly loaded and transported to an NMOCD approved disposal facility.

On October 29, 2024, Hungry Horse, LLC notified NMOCD that closure samples would be collected on November 1, 2024. NMOCD Correspondence is provided as Attachment II.

On November 1, 2024, twenty composite confirmation soil samples were collected from the excavation floor and sidewalls, with each sample representing no more than 200 square feet. Soil samples FL1 through FL8 and SW1 through SW12, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of FL1 – FL8, which exhibited TPH, and chloride concentrations in excess of NMOCD Closure Criteria.

From December 19, 2024, through January 7, 2025, the areas characterized by sample locations FL1 – FL8 were excavated. Excavated contaminated soil was directly loaded and transported to an NMOCD approved disposal facility. Clean caliche for backfill was backhauled and stockpiled on location. The caliche pit was sampled on September 24, 2024. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in the submitted sample.

On January 7, 2025, Hungry Horse, LLC notified NMOCD that closure samples would be collected on January 10, 2025. NMOCD Correspondence is provided as Attachment II.

On January 10, 2025, sixteen composite confirmation soil samples were collected from the excavation floor and sidewalls, with each sample representing no more than 200 square feet. Soil samples FL1b through FL8b and SW13 through SW20, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of FL3b, which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

On January 13, 2025, the area characterized by sample location FL3b was excavated. Excavated contaminated soil was immediately loaded and hauled to an NMOCD approved disposal facility. On January 14, 2025, Hungry Horse, LLC notified NMOCD that closure samples would be collected on January 17, 2025. NMOCD Correspondence is provided as Attachment II.

On January 17, 2025, one composite confirmation soil sample was collected from the excavation floor, the sample representing no more than 200 square feet. Soil sample FL3c was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in the submitted sample.



The final excavated area totaled approximately sixteen hundred square feet and ranged in depth from sixteen to twenty-five feet bgs. From all remediation activities, approximately 1,900 cubic yards of impacted soil were excavated and hauled to an NMOCD approved disposal facility.

Sample Map 10/14/20; 11/30/20; 12/1/20, Delineation Sample Map, Initial Excavation Floor Sample Map, Initial Excavation Sidewall Sample Map, and Final Excavation Sample Map, are provided as Figure 4, Figure 5, Figure 6, Figure 7, and Figure 8, respectively. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment VI.

Sampling Procedure and Identification:

During confirmation sampling, five-point composite soil samples were collected from the floor of the excavation, each collected sample representing an area no greater than 200 square feet. These sample locations are identified by FL designation. Five-point composite soil samples were also collected from the sidewalls of the excavation, with each collected sample representing an area no greater than 200 square feet. These sample locations are identified by SW designation.

Excavation sidewall samples SW1 through SW20 were collected as five-point composite samples, collected from the sidewalls of the excavation, from the excavation surface to the excavation floor. Excavation Sample Map, provided as Figure 6, depicts sidewall sample boundaries.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, the excavation has been backfilled with locally sourced, clean, non-impacted caliche. The area was contoured to achieve erosion control and preserve surface water flow. Containment berms will be rebuilt to contain 1.5 times the volume of the tank when the facility is brought back into production. As the affected area is located on an active well pad, no re-seeding will be required.

Closure Request:

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, Murchison Oil & Gas respectfully requests closure of the Ringer Federal #2 location, NRM2027443562.



Limitations:

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* 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:

Ridge Runner Resources Operating, LLC

4000 N Big Spring Ste 210

Midland, TX 79705

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First St.

Artesia, NM 88210

Fred Beard

185 Means Rd.

Carlsbad, NM 88220

Figures

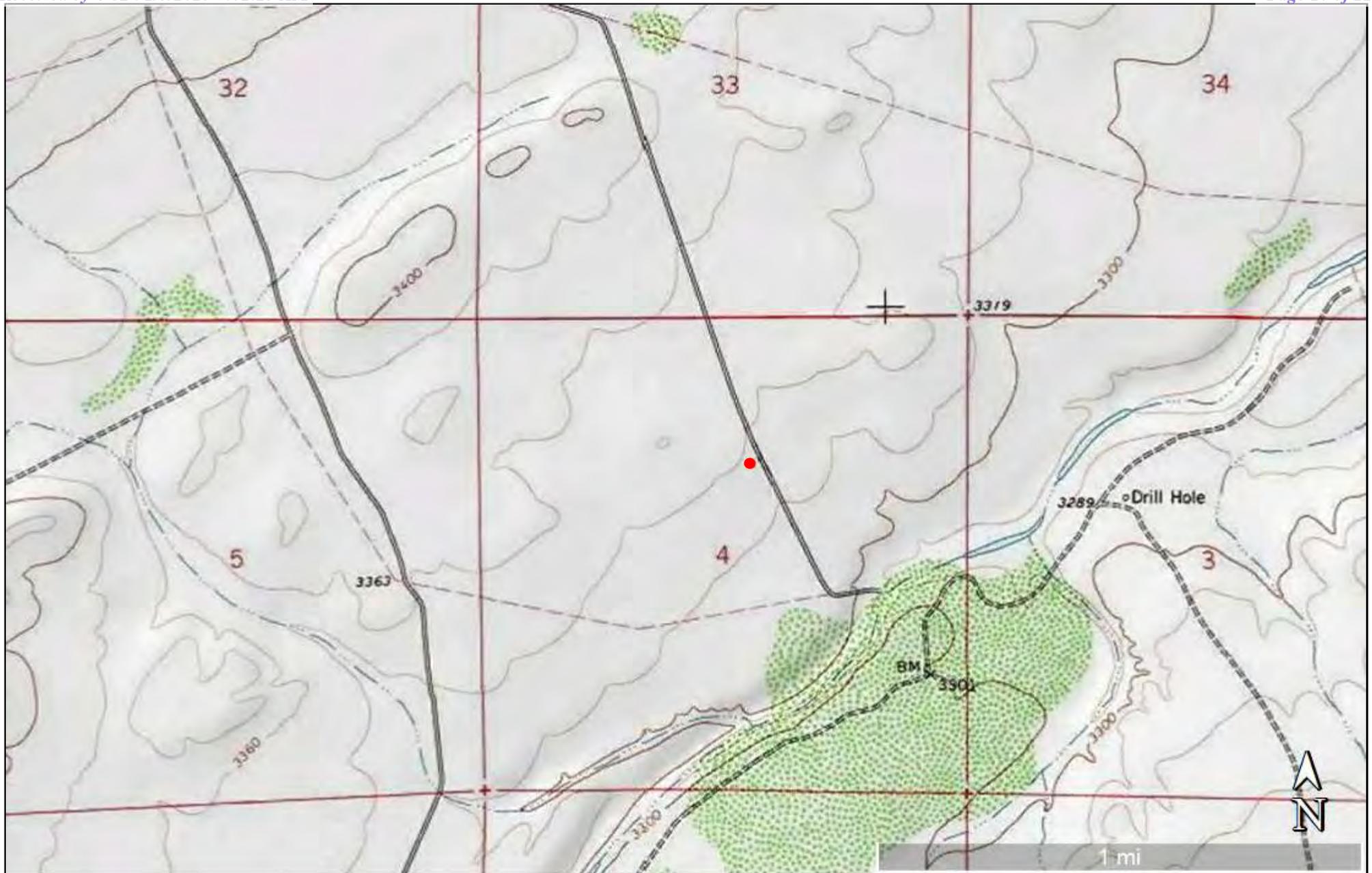


Figure 1

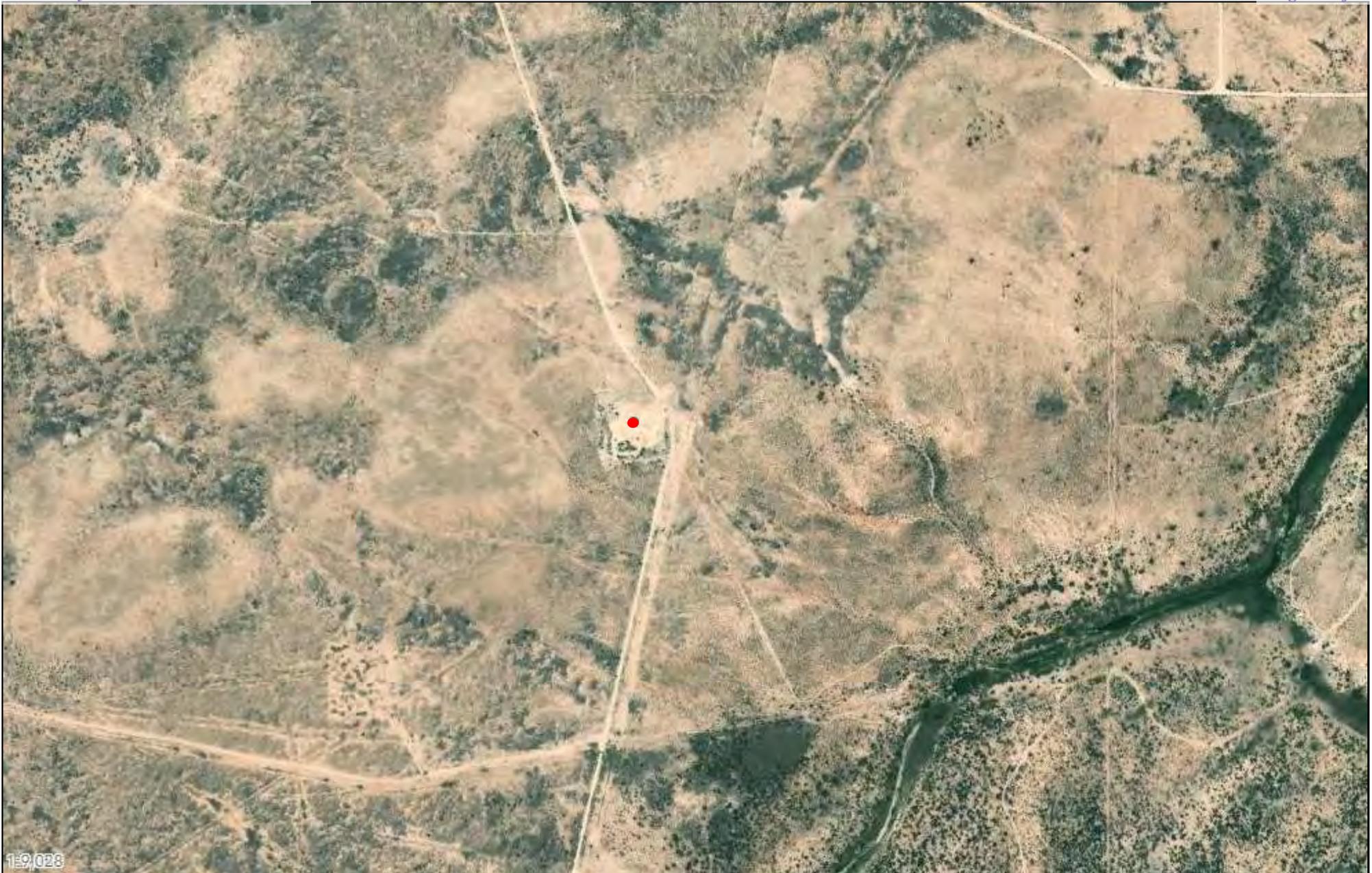
Topographic Map
 Ridge Runner Resources Operating, LLC
 Ringer Federal #2
 GPS: 32.1619186, -104.2968369
 Eddy County

Legend:

- Ringer Federal #2 Location

Drafted: dd
 Checked: bw
 Date: 4/15/24





1:9,028

Figure 2

OSE POD Locations Map
Ridge Runner Resources Operating, LLC
Ringer Federal #2
GPS: 32.1619186, -104.2968369
Eddy County

Legend:

● Ringer Federal #2 Location



Drafted: dd
Checked: bw
Date: 4/15/24

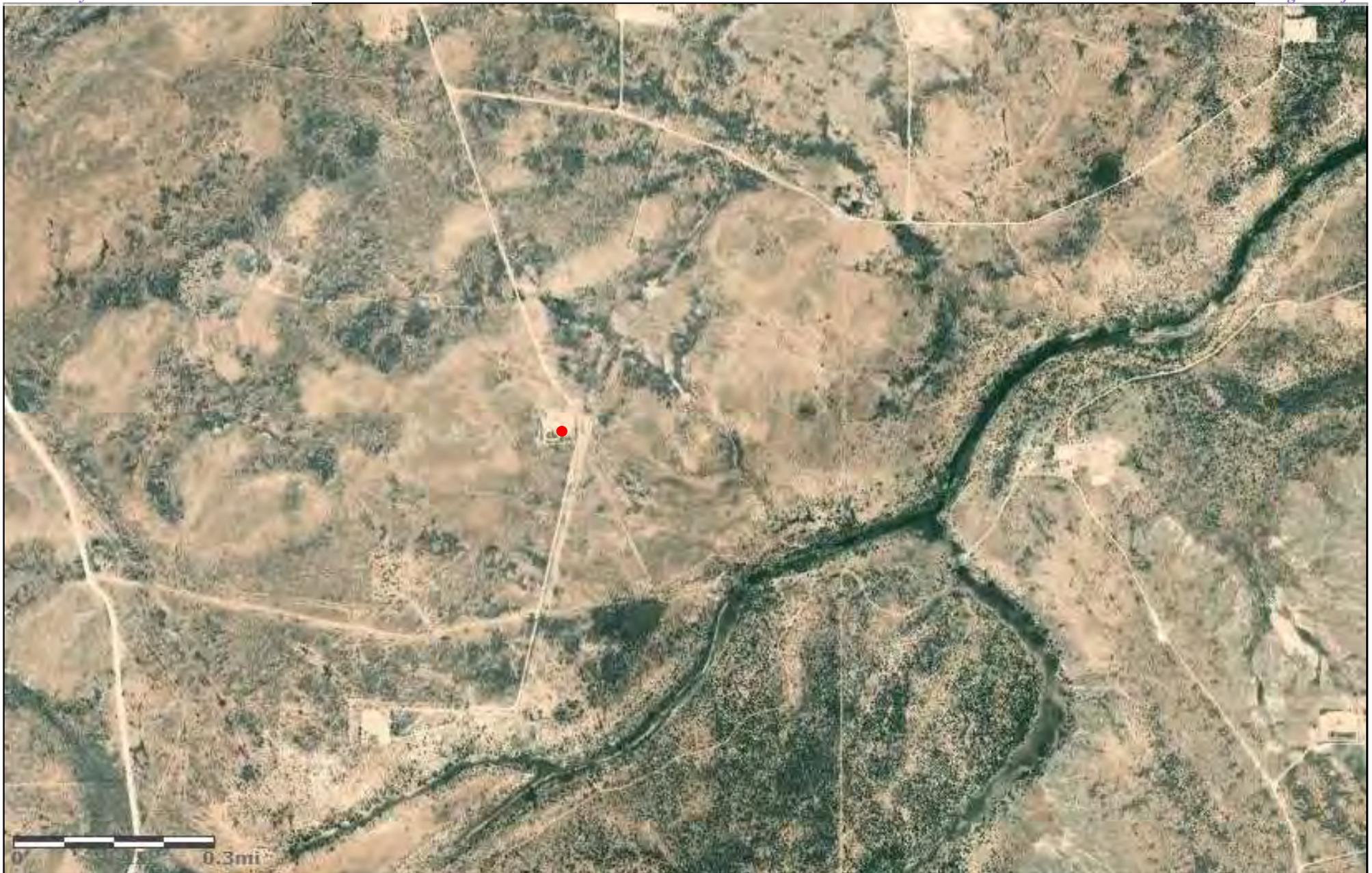


Figure 3

USGS Well Locations Map
Ridge Runner Resources Operating, LLC
Ringer Federal #2
GPS: 32.1619186, -104.2968369
Eddy County

Legend:

● Ringer Federal #2 Location

Drafted: dd
Checked: bw
Date: 4/15/24



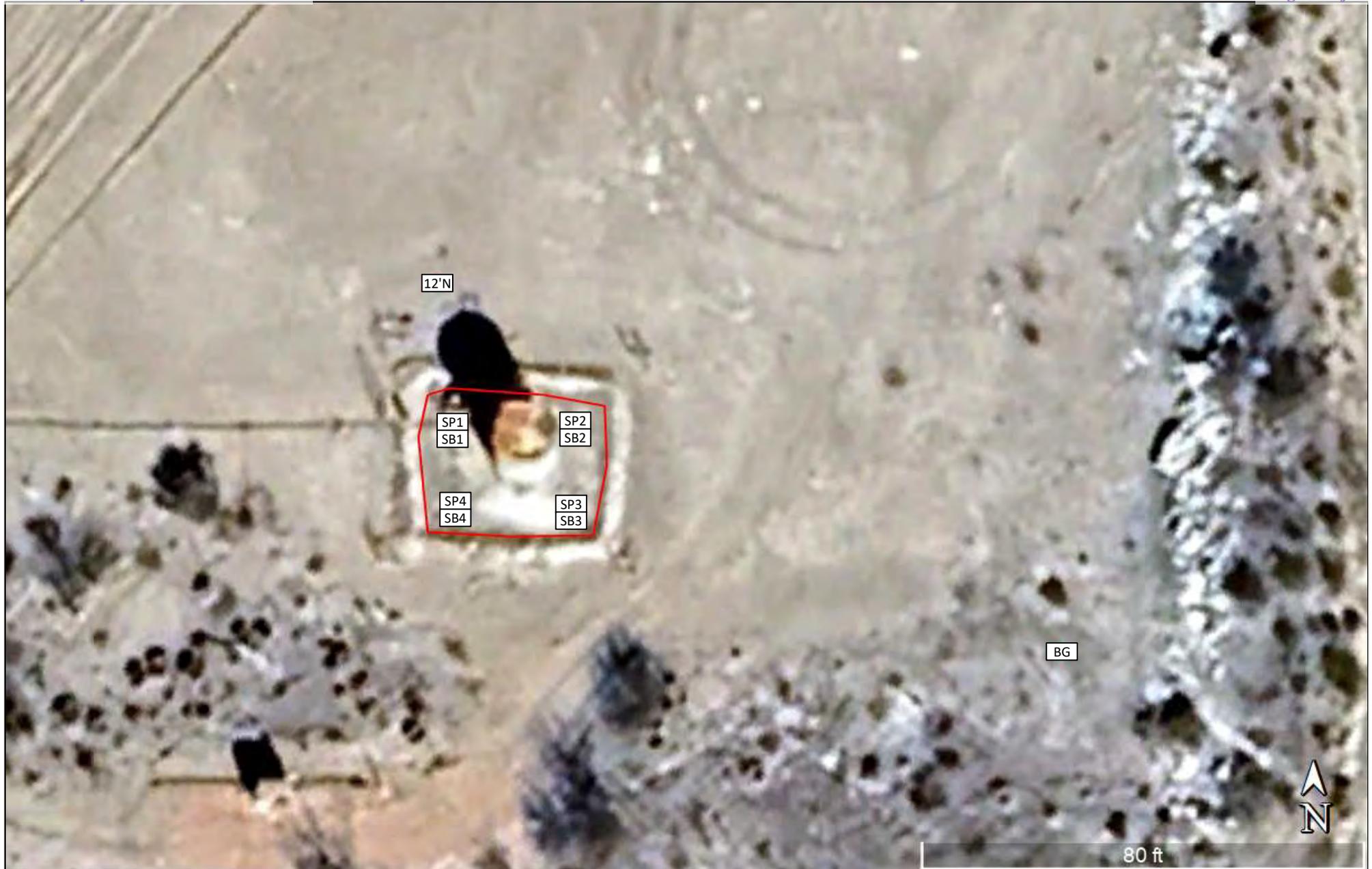


Figure 4

Sample Map 10/14/20; 11/30/20; 12/1/20
 Ridge Runner Resources Operating, LLC
 Ringer Federal #2
 GPS: 32.1619186, -104.2968369
 Eddy County

Legend:

- Release Area
- SP1 Sample Locations
- SB1 Sample Bore Locations

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 Date: 7/19/24





Figure 5

Delineation Sample Map
 Ridge Runner Resources Operating, LLC
 Ringer Federal #2
 GPS: 32.1619186, -104.2968369
 Eddy County

Legend:

- Proposed Excavation Area, Including Containment Berms
- SP1 Delineation Sample Location
- HZ1 Horizontal Sample Location
- 12'N RT Hicks Sample Bore Location

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 Date: 7/19/24





Figure 6

Initial Excavation Floor Sample Map
 Ridge Runner Resources Operating, LLC
 Ringer Federal #2
 GPS: 32.1619186, -104.2968369
 Eddy County

Legend:

- Excavated Area
- Composite Confirmation Sample 200 Square Foot Area
- FL1 Composite Confirmation Sample Location

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 Date: 9/23/24



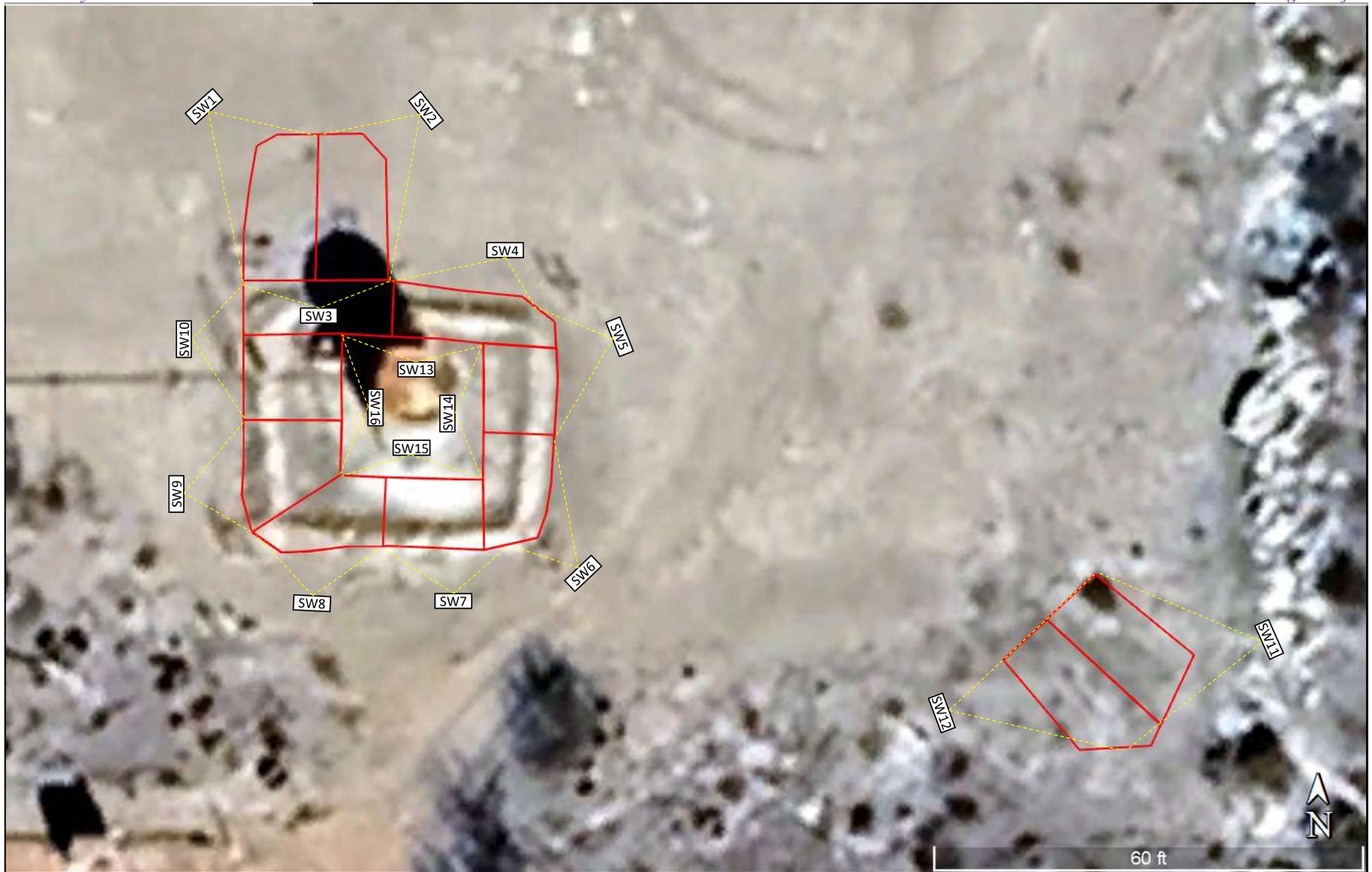


Figure 7

Initial Excavation Sidewall Sample Map
 Ridge Runner Resources Operating, LLC
 Ringer Federal #2
 GPS: 32.1619186, -104.2968369
 Eddy County

Legend:

- Excavated Area
- SW1 Composite Confirmation Sidewall Sample Location
- Sidewall Sample Boundary

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 Date: 9/23/24





Figure 8

Final Excavation Sample Map
 Ridge Runner Resources Operating, LLC
 Ringer Federal #2
 GPS: 32.1619186, -104.2968369
 Eddy County

Legend:

- Excavated Area
- Composite Confirmation Sample 200 Square Foot Area
- FL1 Composite Confirmation Sample Location

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 Date: 1/9/25



Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Ridge Runner Resources Operating, LLC
Ringer Federal #2
NMOCD Ref. #: NRM2027443562

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	10/14/20	0-4	Excavated	3.35	754	8,260	5,720	13,980	<10.0	13,980	464
	10/14/20	0-2	Excavated	-	-	-	-	-	-	-	464
	10/14/20	2-4	Excavated	-	-	-	-	-	-	-	432
	10/14/20	4.25	Excavated	4.92	1,050	14,000	8,070	22,070	<10.0	22,070	656
	10/14/20	4.5	Excavated	<0.200	29.2	1,250	3,340	4,590	<10.1	4,590	512
SB1	12/1/20	6-8	Excavated	ND	8.5	210	730	940	ND	940	1,600
	12/1/20	9-10	Excavated	ND	25	850	1,900	2,750	ND	2,750	1,400
	12/1/20	12-14	Excavated	ND	ND	ND	11	11	ND	11	120
SP2	10/14/20	0-4	Excavated	2.83	910	9,170	6,630	15,800	<10.0	15,800	2,400
	10/14/20	0-2	Excavated	-	-	-	-	-	-	-	2,080
	10/14/20	2-4	Excavated	-	-	-	-	-	-	-	2,800
	10/14/20	4.25	Excavated	1.46	475	8,280	5,470	13,750	<10.0	13,750	2,400
	10/14/20	4.5	Excavated	<0.200	11.4	401	1,430	1,831	<10.1	1,831	2,440
SB2	12/1/20	6-8	Excavated	ND	320	3,400	6,200	9,600	ND	9,600	3,600
	12/1/20	12.5	Excavated	ND	1.3	83	180	263	ND	263	240
	12/1/20	18	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP3	10/14/20	0-4	Excavated	<0.050	2.56	73.9	167	241	<10.0	241	576
	10/14/20	0-2	Excavated	-	-	-	-	-	-	-	336
	10/14/20	2-4	Excavated	-	-	-	-	-	-	-	976
	10/14/20	4.25	Excavated	<0.050	1.03	<10.0	14.0	<20.0	<10.0	<30.0	880
	10/14/20	4.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
SB3	11/30/20	6-8	Excavated	ND	2.6	55	26	81	ND	81	1,800
	11/30/20	12-14	Excavated	ND	4.1	170	380	550	ND	550	290
	11/30/20	24-29	Excavated	ND	1.3	32	83	115	ND	115	100
	11/30/20	34	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
	11/30/20	49	In-Situ	ND	0.57	ND	ND	ND	ND	ND	ND
SP4	10/14/20	0-4	Excavated	<2.50	650	7,560	6,340	13,900	12.2	13,912.2	1,090
	10/14/20	0-2	Excavated	-	-	-	-	-	-	-	1,200
	10/14/20	2-4	Excavated	-	-	-	-	-	-	-	896
	10/14/20	4.25	Excavated	<2.50	475	9,790	6,880	16,670	<10.0	16,670	864
	10/14/20	4.5	Excavated	<0.200	26.5	1,100	3,370	4,470	<10.1	4,470	928
SB4	12/1/20	6-8	Excavated	ND	200	1,800	6,000	7,800	ND	7,800	740
	12/1/20	16-18	In-Situ	ND	0.33	16	ND	ND	ND	16	450
	12/1/20	24	In-Situ	ND	ND	ND	ND	ND	ND	ND	230
BG	10/14/20	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
	10/14/20	4.25	Excavated	<0.050	0.574	<10.0	<10.0	<20.0	<10.0	<30.0	1,020
12'N	12/1/20	0-2	Excavated	-	-	-	-	-	-	-	4,900
	12/1/20	2-4	Excavated	-	-	-	-	-	-	-	1,700
	12/1/20	4	Excavated	-	-	-	-	-	-	-	2,700
	12/1/20	10	In-Situ	-	-	-	-	-	-	-	76
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
Ridge Runner Resources Operating, LLC
Ringer Federal #2
NMOCD Ref. #: NRM2027443562

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	6/5/24	Surf	Excavated	<0.050	<0.300	<10.0	5,560	5,560	75.0	5,635	3,960
	6/10/24	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP2	6/5/24	Surf	Excavated	<0.050	<0.300	<10.0	215	215	<10.0	215	912
	6/5/24	10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP3	6/5/24	Surf	Excavated	<0.050	<0.300	<10.0	90.7	90.7	<10.0	90.7	80.0
	6/5/24	1	Excavated	<0.050	5.59	394	568	962	<10.0	962	400
HZ1	6/5/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	6/5/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ2	6/5/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	6/5/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ3	6/5/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	6/5/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ4	6/5/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	6/5/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL1	9/24/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL2	9/24/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL3	9/24/24	10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL4	9/24/24	10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL5	9/24/24	10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL6	9/24/24	10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL7	9/24/24	10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL8	9/24/24	10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL9	9/24/24	10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL10	9/24/24	10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL11	9/24/24	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL12	9/24/24	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW1	9/24/24	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW2	9/24/24	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW3	9/24/24	4-10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW4	9/24/24	0-10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW5	9/24/24	0-10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW6	9/24/24	0-10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW7	9/24/24	0-10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW8	9/24/24	0-10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW9	9/24/24	0-10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW10	9/24/24	0-10	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW11	9/24/24	0-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW12	9/24/24	0-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW13	9/24/24	0-10	Excavated	<0.200	52.2	1,300	2,740	4,040	<10.0	4,040	1,310
SW14	9/24/24	0-10	Excavated	<0.100	38.5	867	2,080	2,947	<10.0	2,947	1,440
SW15	9/24/24	0-10	Excavated	<0.050	24.2	388	1,340	1,728	<10.0	1,728	2,480
SW16	9/24/24	0-10	Excavated	<0.200	61.2	1,140	2,780	3,920	<10.0	3,920	1,410
Caliche	9/24/24	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

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Ridge Runner Resources Operating, LLC
Ringer Federal #2
NMOCD Ref. #: NRM2027443562

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)
FL1	11/1/24	14	Excavated	<0.050	0.307	16.1	376	392.1	<10.0	392.1	1,340
FL2	11/1/24	14	Excavated	<0.050	1.03	26.7	954	980.7	52.7	1,033.4	1,840
FL3	11/1/24	14	Excavated	<0.050	1.47	93.2	652	745.2	<10.0	745.2	784
FL4	11/1/24	14	Excavated	<0.050	<0.300	<10.0	173	173	<10.0	173	2,440
FL5	11/1/24	14	Excavated	<0.050	<0.300	<10.0	19.4	<20.0	<10.0	<30.0	1,600
FL6	11/1/24	14	Excavated	<0.050	0.635	15.3	132	147.3	22.1	169.4	3,600
FL7	11/1/24	14	Excavated	<0.050	0.486	17.5	301	318.5	<10.0	318.5	1,200
FL8	11/1/24	14	Excavated	<0.050	<0.300	11.3	144	155.3	<10.0	155.3	1,600
SW1	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW2	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW3	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW4	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW5	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW6	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW7	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW8	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW9	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW10	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW11	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW12	11/1/24	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL1b	1/10/25	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL2b	1/10/25	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL3b	1/10/25	16	Excavated	<0.050	<0.300	<10.0	145	145	215	360	80.0
FL3c	1/10/25	17	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL4b	1/10/25	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	15.6	<30.0	112
FL5b	1/10/25	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL6b	1/10/25	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL7b	1/10/25	25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL8b	1/10/25	25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW13	1/10/25	14-16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW14	1/10/25	14-16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW15	1/10/25	14-16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW16	1/10/25	14-16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW17	1/10/25	16-25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW18	1/10/25	16-25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW19	1/10/25	16-25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW20	1/10/25	16-25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

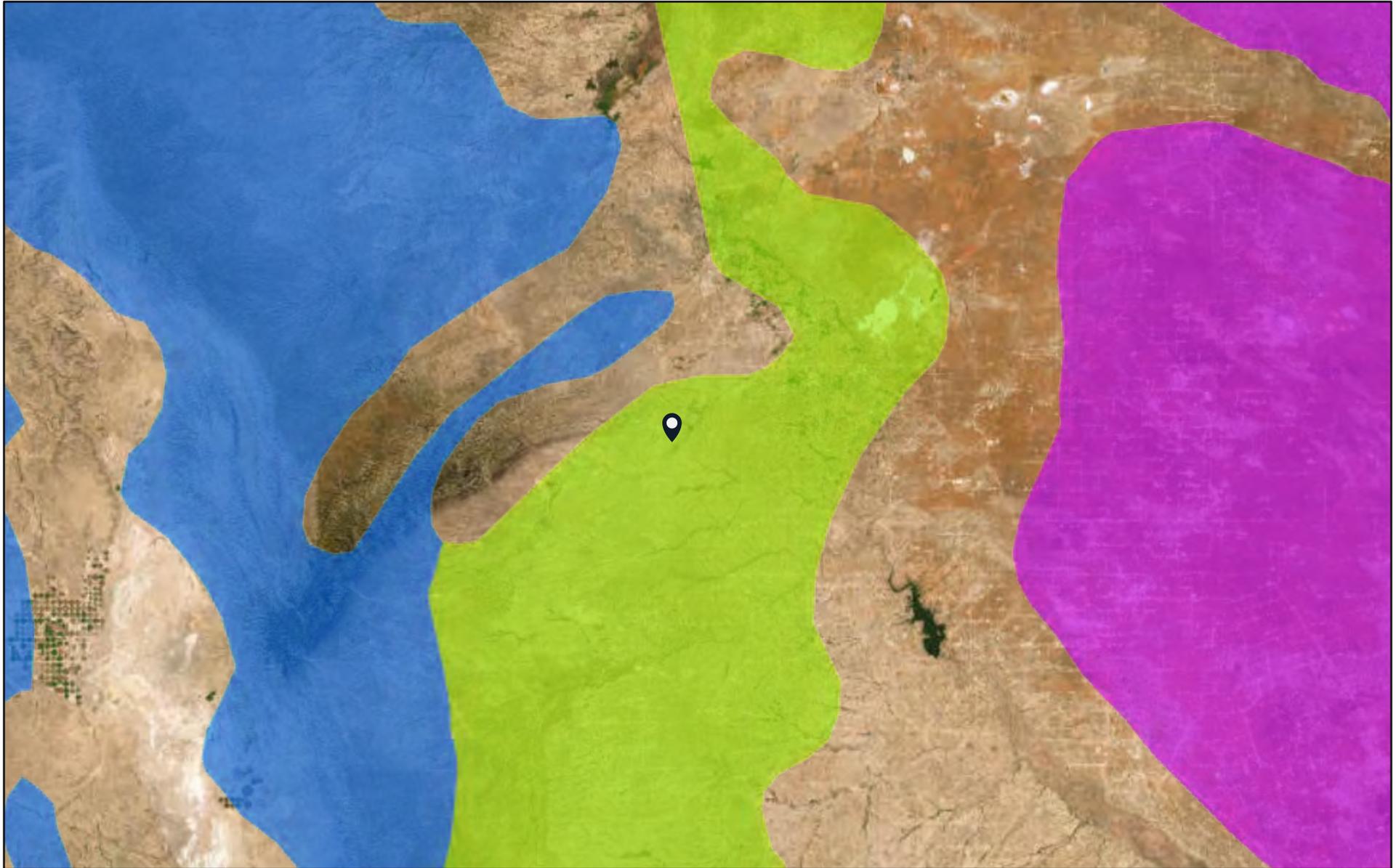
NOTES:

- = 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 #2



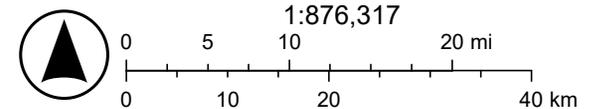
4/17/2024

- | | |
|---|---|
| Karst Type | ■ Volcanic |
| ■ Carbonate | World Imagery |
| ■ Erosional | Low Resolution 15m Imagery |
| ■ Gypsum | High Resolution 60cm Imagery |

High Resolution 30cm Imagery

Citations

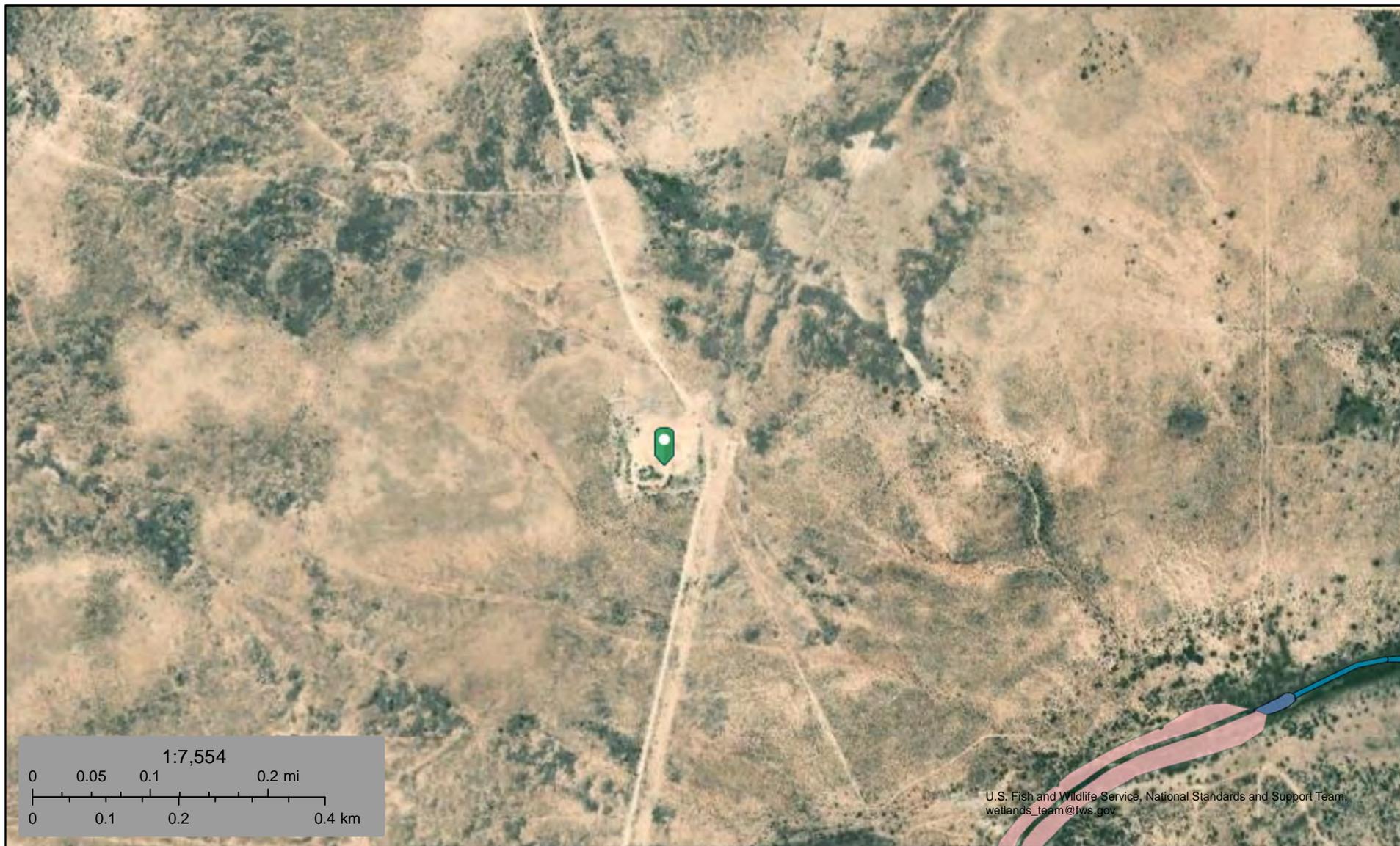
150m Resolution Metadata



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 #2



April 17, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- 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 #2)

32° 10' 17" N

32° 10' 17" N

104° 18' 49" W

104° 16' 46" W

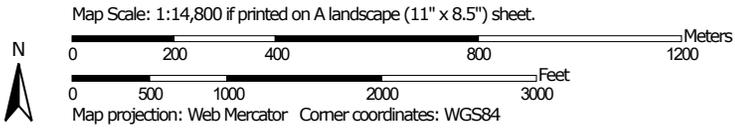


32° 9' 8" N

32° 9' 8" N

104° 18' 49" W

104° 16' 46" W



Soil Map—Eddy Area, New Mexico
(Ringer Federal #2)

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 19, Sep 7, 2023

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	15.5	1.4%
RE	Reagan-Upton association, 0 to 9 percent slopes	816.7	75.7%
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	43.6	4.0%
UG	Upton gravelly loam, 0 to 9 percent slopes	202.6	18.8%
Totals for Area of Interest		1,078.4	100.0%

Eddy Area, New Mexico

RE—Reagan-Upton association, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w5d

Elevation: 1,100 to 5,400 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent

Upton and similar soils: 25 percent

Minor components: 5 percent

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

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 6e

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Ringer Federal #2

Hydrologic Soil Group: B
Ecological site: R042CY153NM - Loamy
Hydric soil rating: No

Description of Upton

Setting

Landform: Ridges, fans
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042CY159NM - Shallow Loamy
Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 3 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Pima

Percent of map unit: 2 percent
Ecological site: R070BC017NM - Bottomland

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Ringer Federal #2

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Attachment II NMOCD Correspondence

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 385496

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 385496
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2027443562
Incident Name	NRM2027443562 RINGER FEDERAL #2 @ 30-015-22308
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-22308] RINGER FEDERAL COM #002

Location of Release Source	
Site Name	RINGER FEDERAL #2
Date Release Discovered	09/29/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,000
What is the estimated number of samples that will be gathered	28
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/24/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Roy Bell 575-626-8959
Please provide any information necessary for navigation to sampling site	32.161666, -104.296746

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
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District III
 1000 Rio Brazos Rd., Aztec, NM 87410
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 385496

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 385496
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
ccottrell	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/20/2024

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 396725

QUESTIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 396725
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2027443562
Incident Name	NRM2027443562 RINGER FEDERAL #2 @ 30-015-22308
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-22308] RINGER FEDERAL COM #002

Location of Release Source	
Site Name	RINGER FEDERAL #2
Date Release Discovered	09/29/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,600
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/01/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Jerry Heidelberg 575-390-3639 8 floor and 12 sidewall samples
Please provide any information necessary for navigation to sampling site	32.161666, -104.296746

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS
 Action 396725

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 396725
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
hungryhorse	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/29/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505**

QUESTIONS

Action 417806

QUESTIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 417806
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2027443562
Incident Name	NRM2027443562 RINGER FEDERAL #2 @ 30-015-22308
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-22308] RINGER FEDERAL COM #002

Location of Release Source	
Site Name	RINGER FEDERAL #2
Date Release Discovered	09/29/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,600
What is the estimated number of samples that will be gathered	16
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/10/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Shawn Cotton 575-605-1626 16 total; 8 floor, 8 sidewall
Please provide any information necessary for navigation to sampling site	32.161666, -104.296746

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 417806

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 417806
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
hungryhorse	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/7/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 420629

QUESTIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 420629
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2027443562
Incident Name	NRM2027443562 RINGER FEDERAL #2 @ 30-015-22308
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-22308] RINGER FEDERAL COM #002

Location of Release Source	
Site Name	RINGER FEDERAL #2
Date Release Discovered	09/29/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	200
What is the estimated number of samples that will be gathered	1
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Jerry Heidelberg 575-390-3639
Please provide any information necessary for navigation to sampling site	32.161666, -104.296746

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 420629

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 420629
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
hungryhorse	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/14/2025

Daniel Dominguez

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Wednesday, September 25, 2024 1:45 PM
To: Cindy Cottrell
Cc: Daniel Dominguez; Greg Boans
Subject: RE: [EXTERNAL] Ringer Federal Com 2 - NRM2027443562 - Extension Request

Cindy,

The 30-day extension request is approved. The new due date for the remediation closure report is 10/27/2024.

Please include a copy of this correspondence in the remediation closure report.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

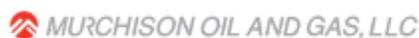
From: Cindy Cottrell <ccottrell@jdmii.com>
Sent: Wednesday, September 25, 2024 12:25 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Daniel Dominguez <ddominguez@hungry-horse.com>; Greg Boans <gboans@jdmii.com>
Subject: [EXTERNAL] Ringer Federal Com 2 - NRM2027443562 - Extension Request

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

Brittany,

We would like to request a 30 day extension in order to complete the remediation work at Ringer Federal Com 2 (NRM2027443562) and submit the report which is due on Friday, 9/27/24. We are waiting on lab results from the closure samples taken on 9/24/24. If the closure criteria are met, the excavated area will need to be backfilled and contoured to prevent erosion.

Thank you for your consideration.



Cindy Cottrell
Regulatory Coordinator & Corporate Secretary
7250 Dallas Parkway, Suite 1400
Plano, TX 75024
Direct Line: 469-573-6413

Attachment III Depth to Groundwater



New Mexico Office of the State Engineer
Wells with Well Log Information

No wells found.

UTMNA83 Radius Search (in meters):

Easting (X): 566301.25

Northing (Y): 3558599.95

Radius: 805

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 particular purpose of the data.

4/17/24 10:50 AM

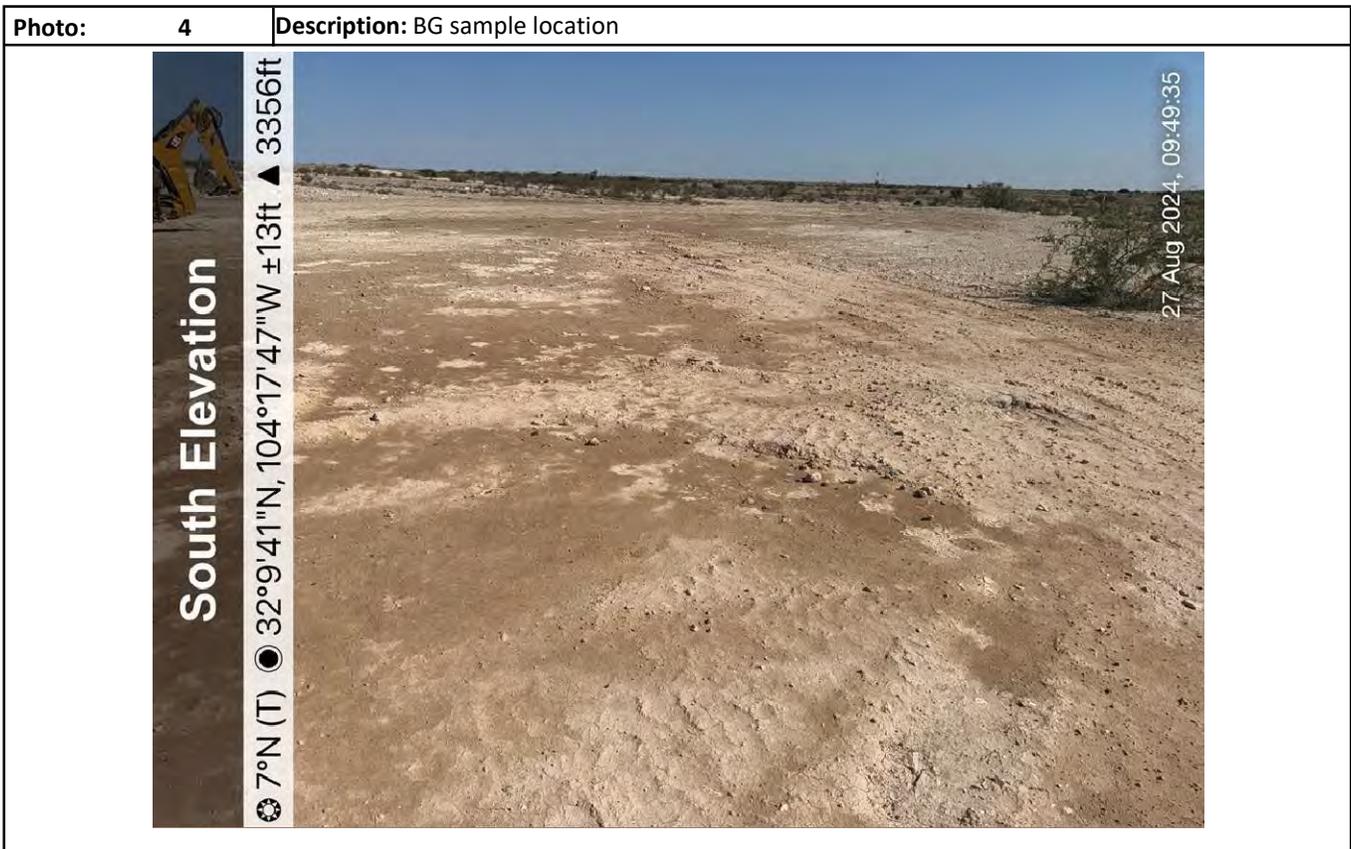
WELLS WITH WELL LOG INFORMATION

Attachment IV Site Photographs

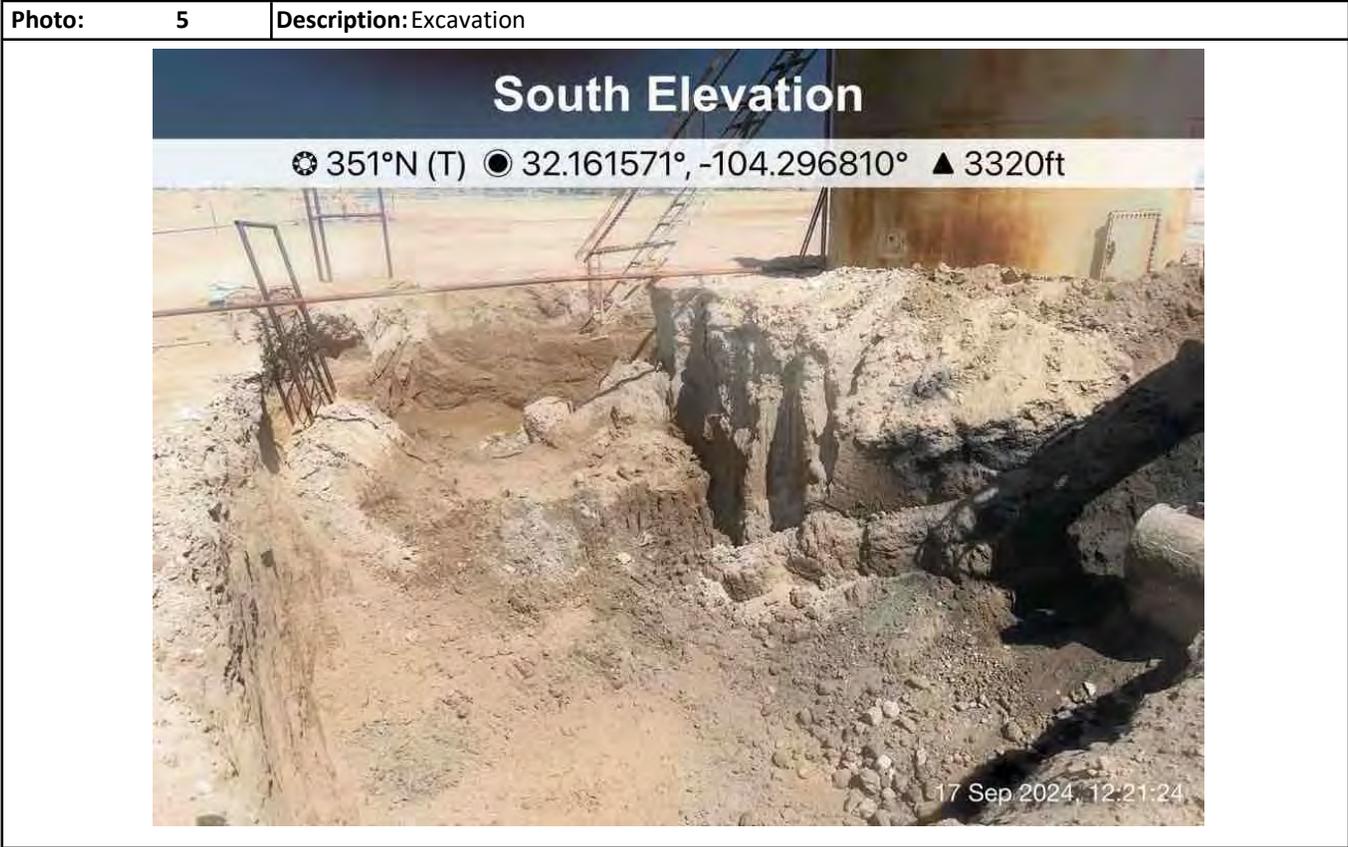
Photographs



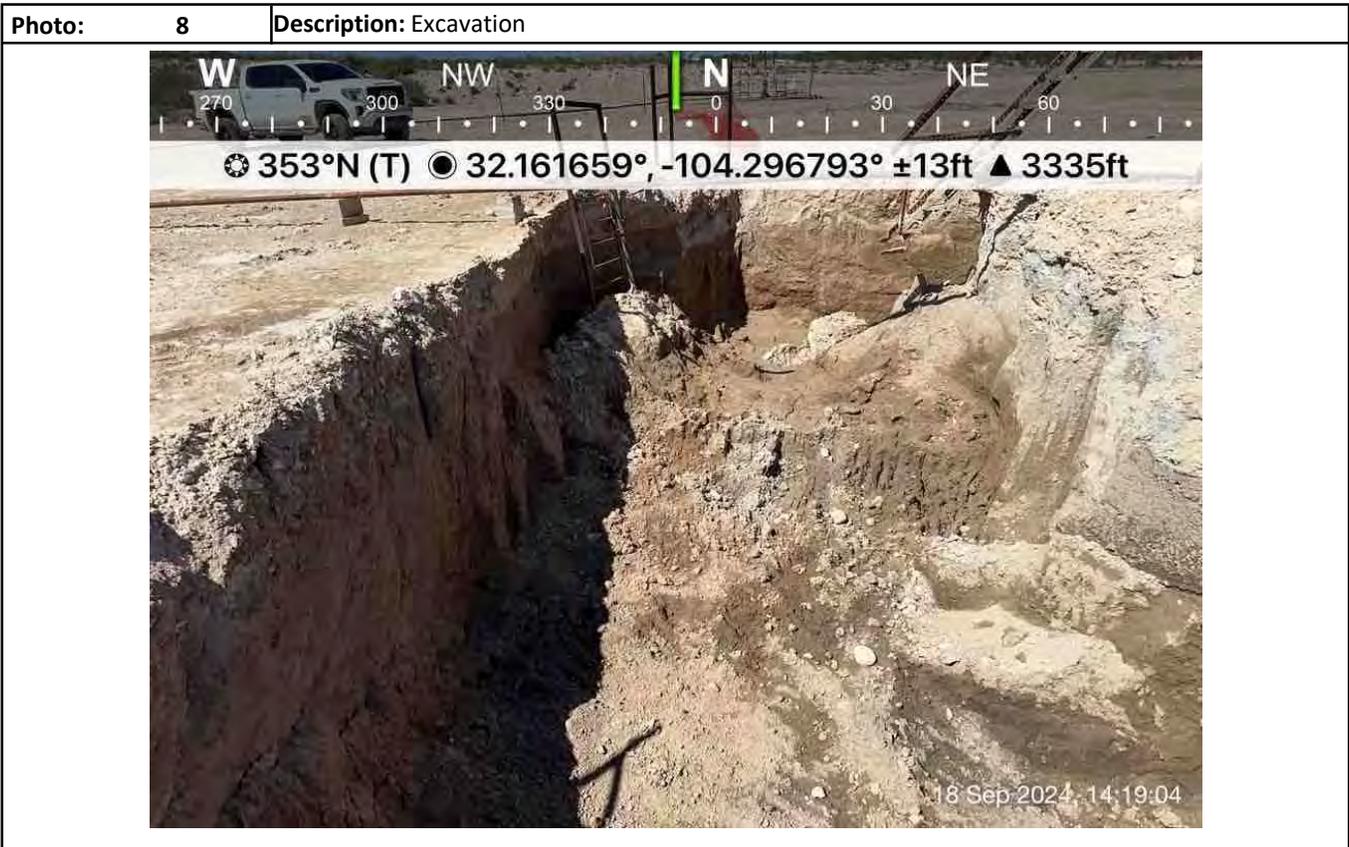
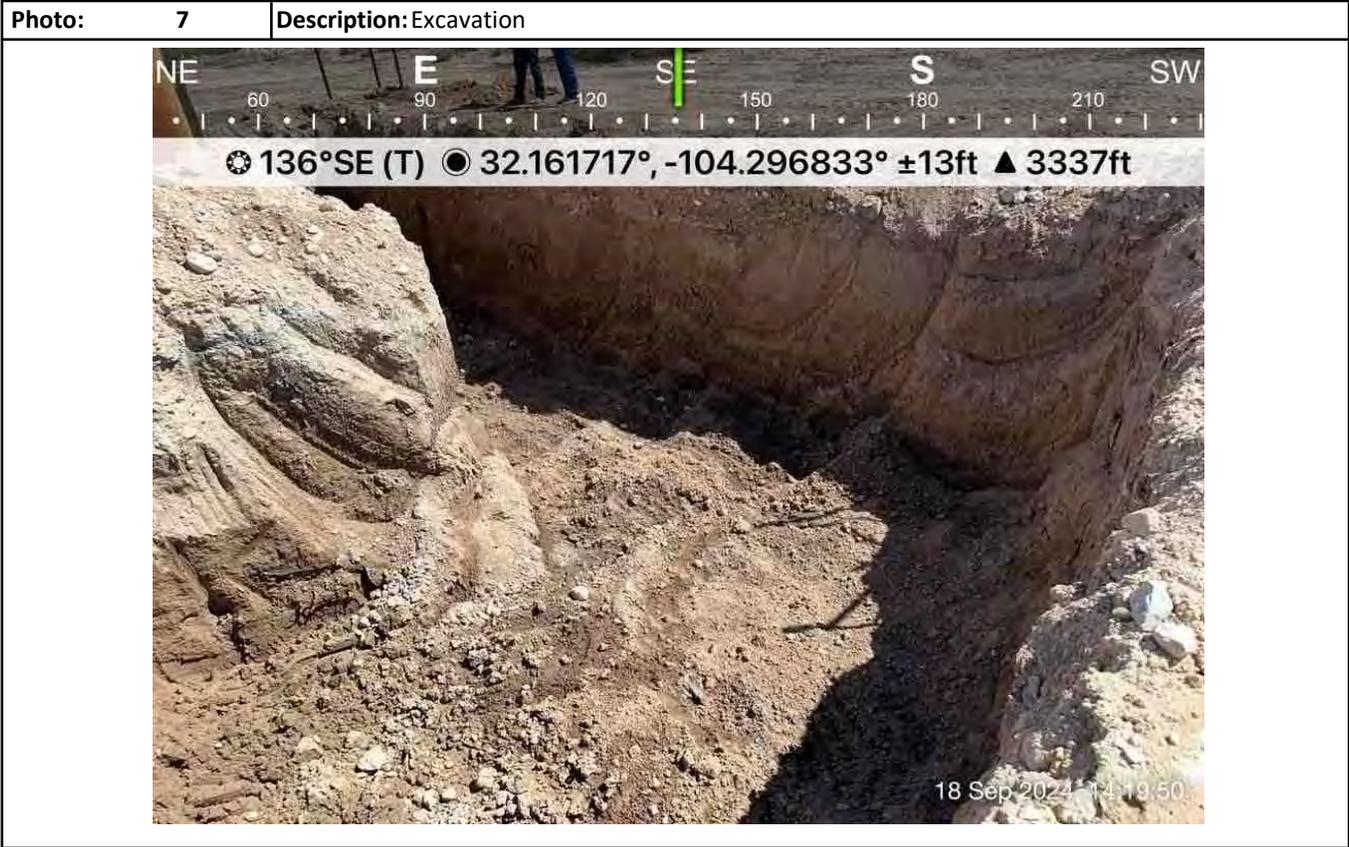
Photographs



Photographs



Photographs



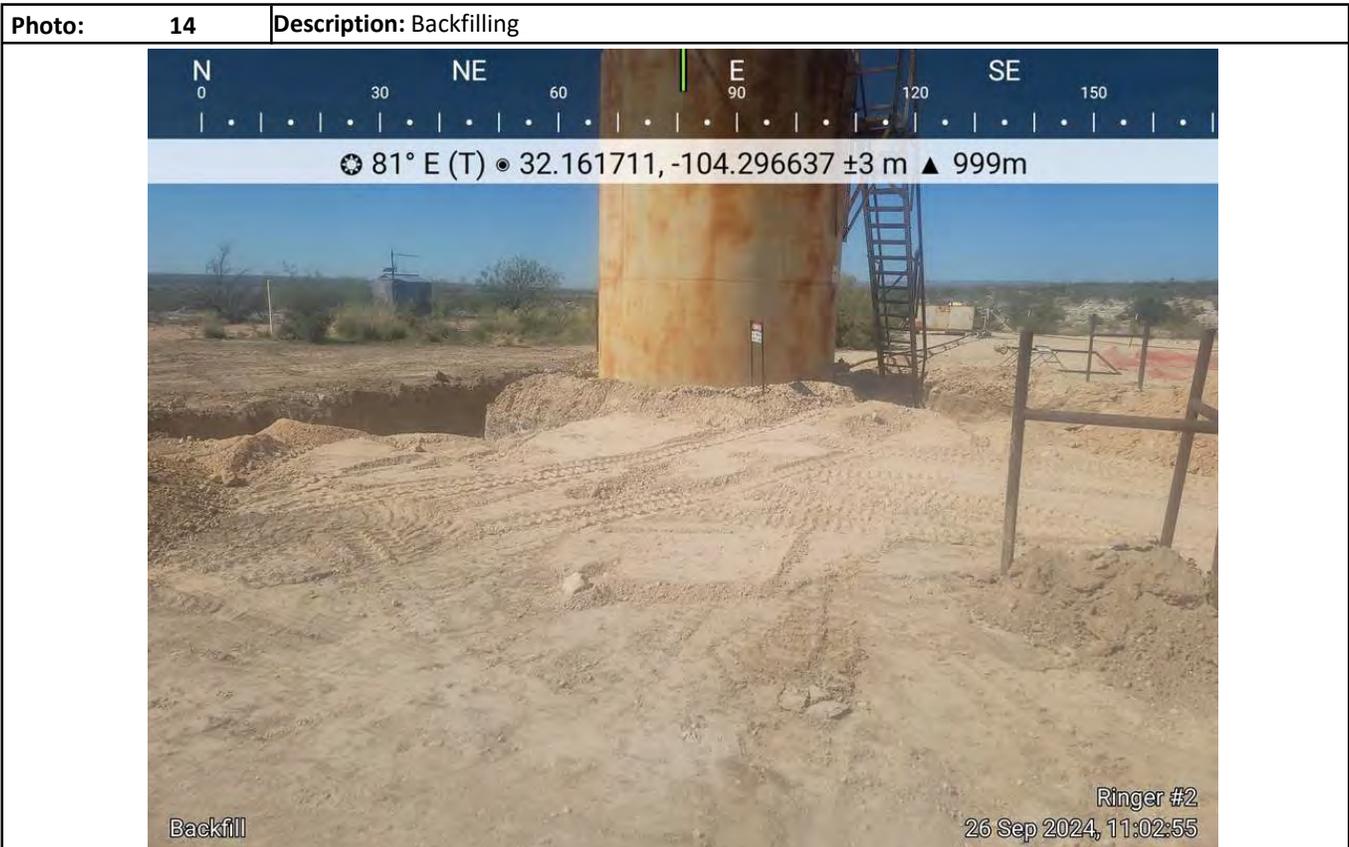
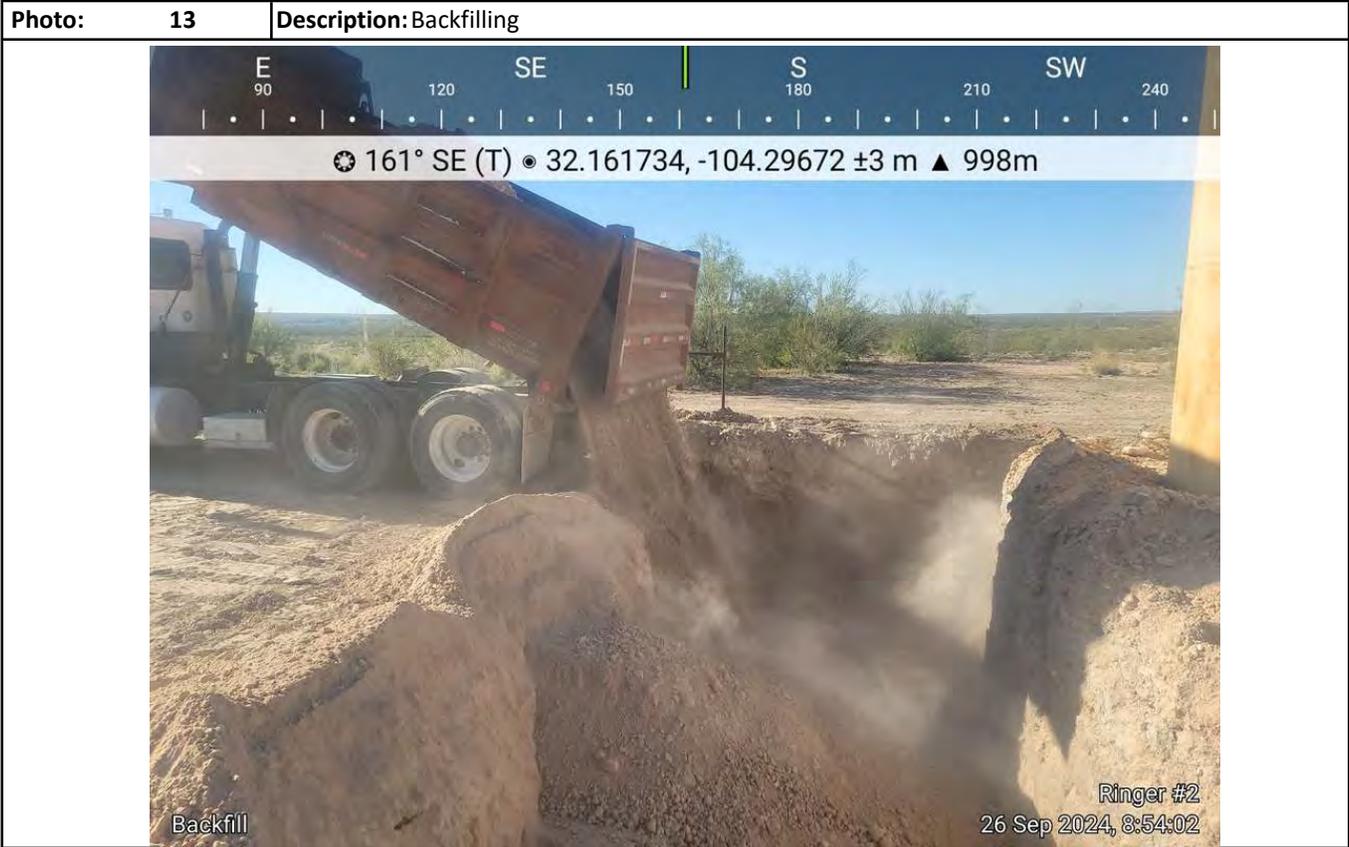
Photographs



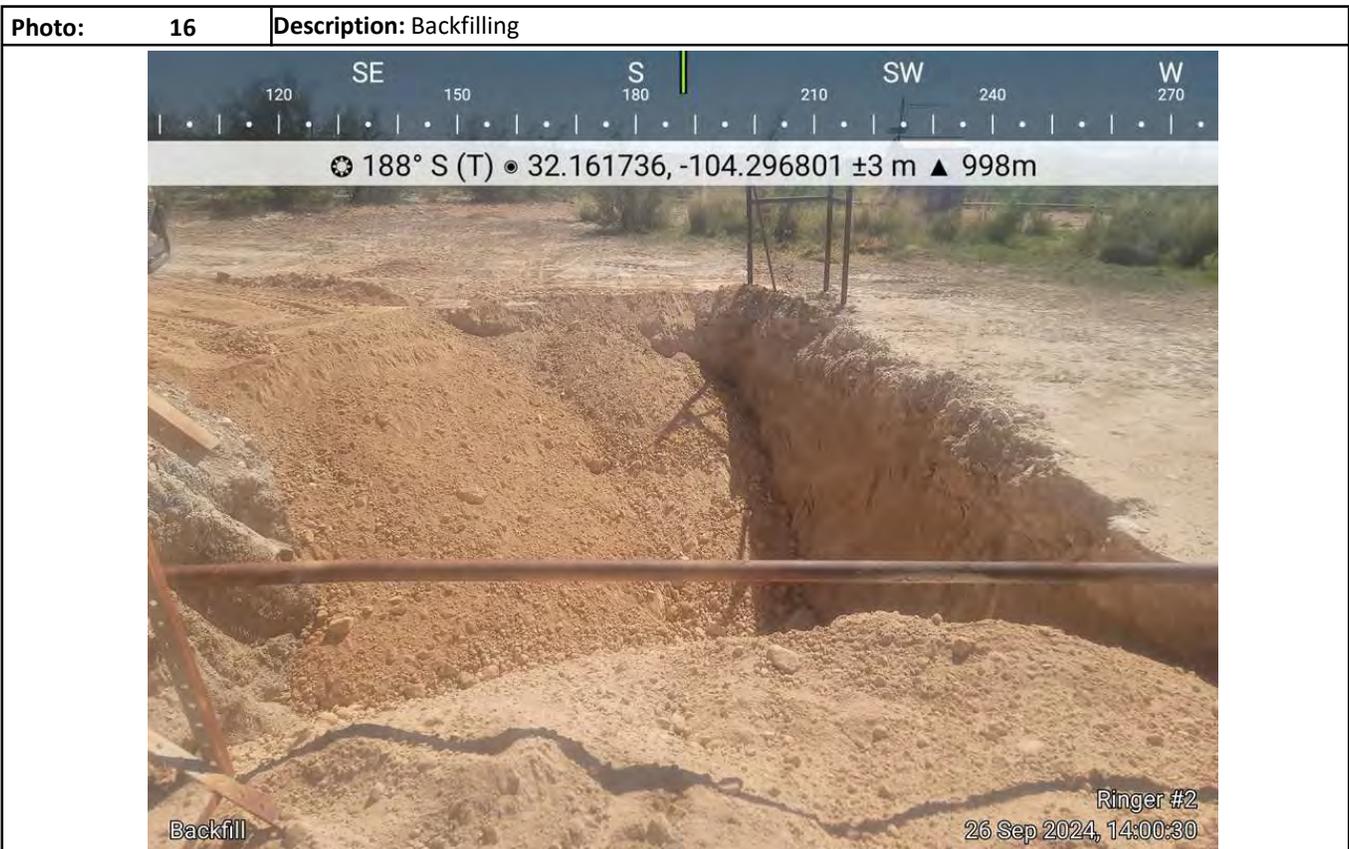
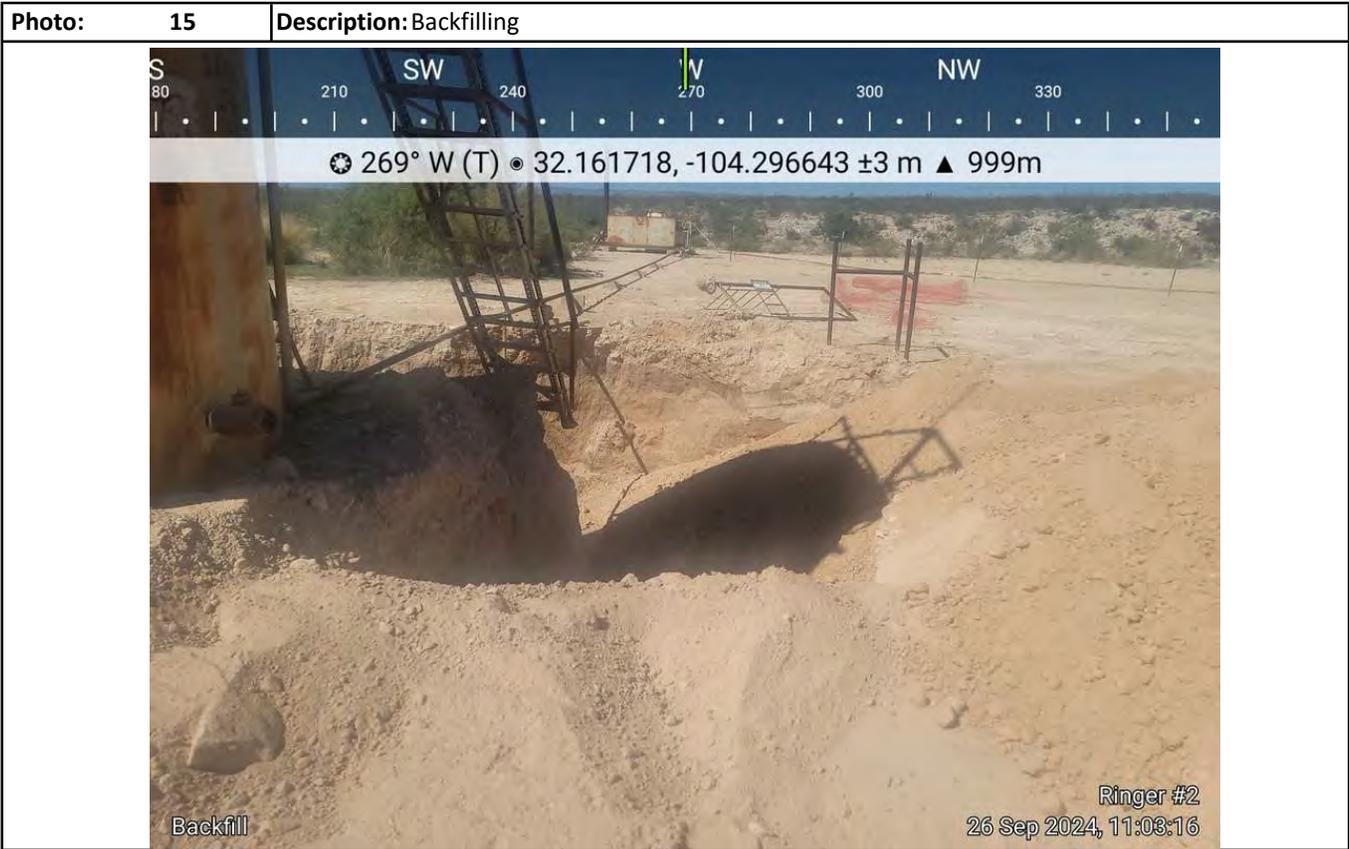
Photographs



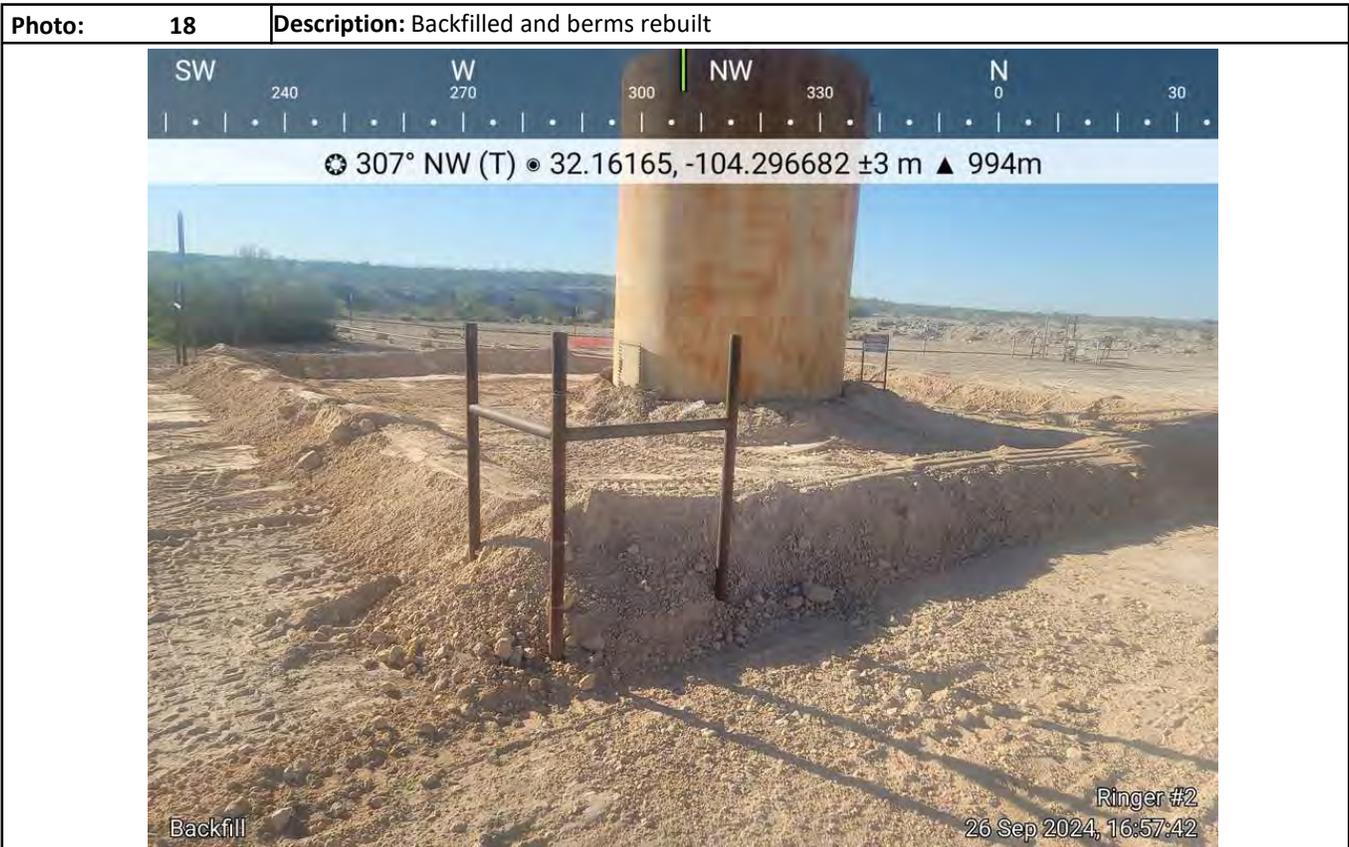
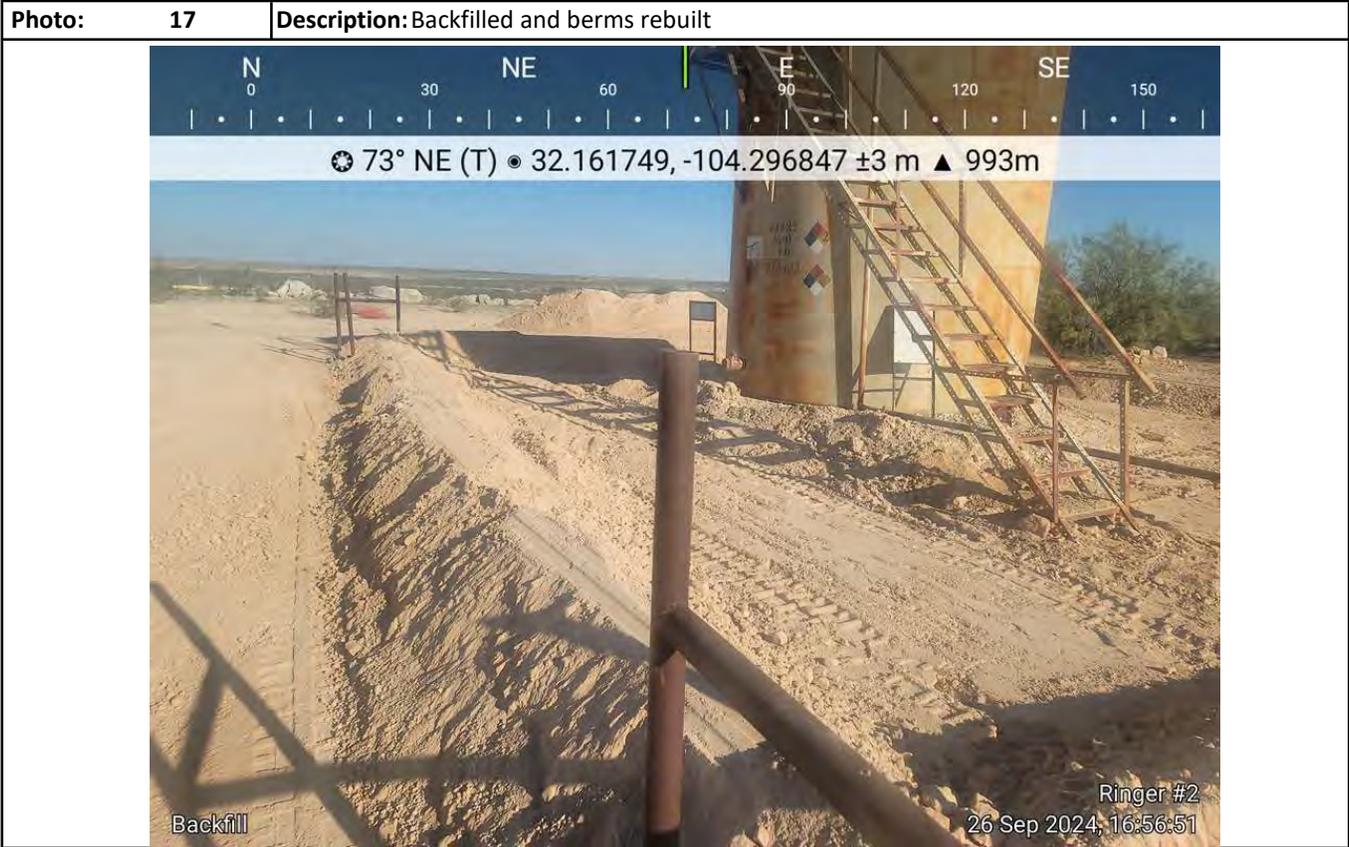
Photographs



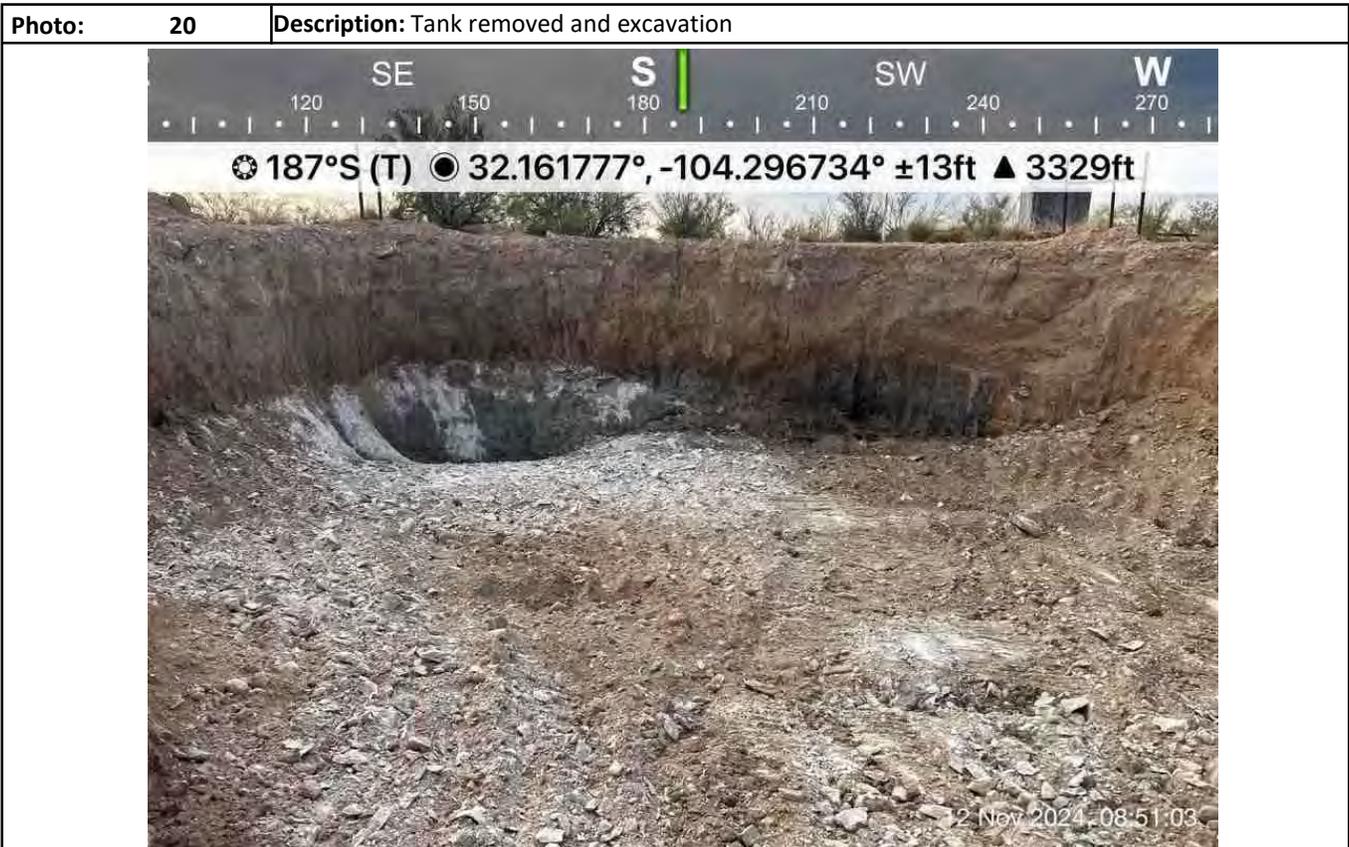
Photographs



Photographs



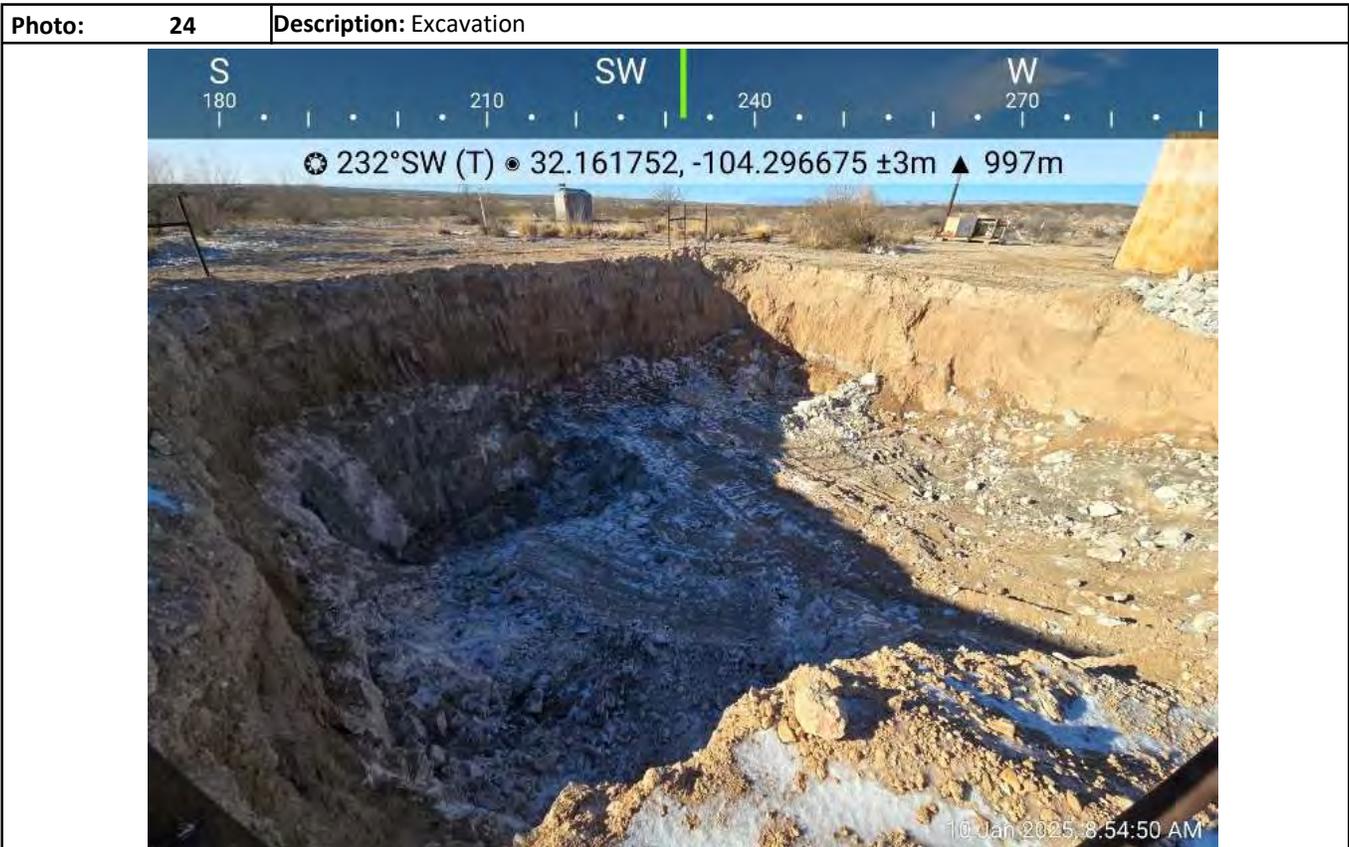
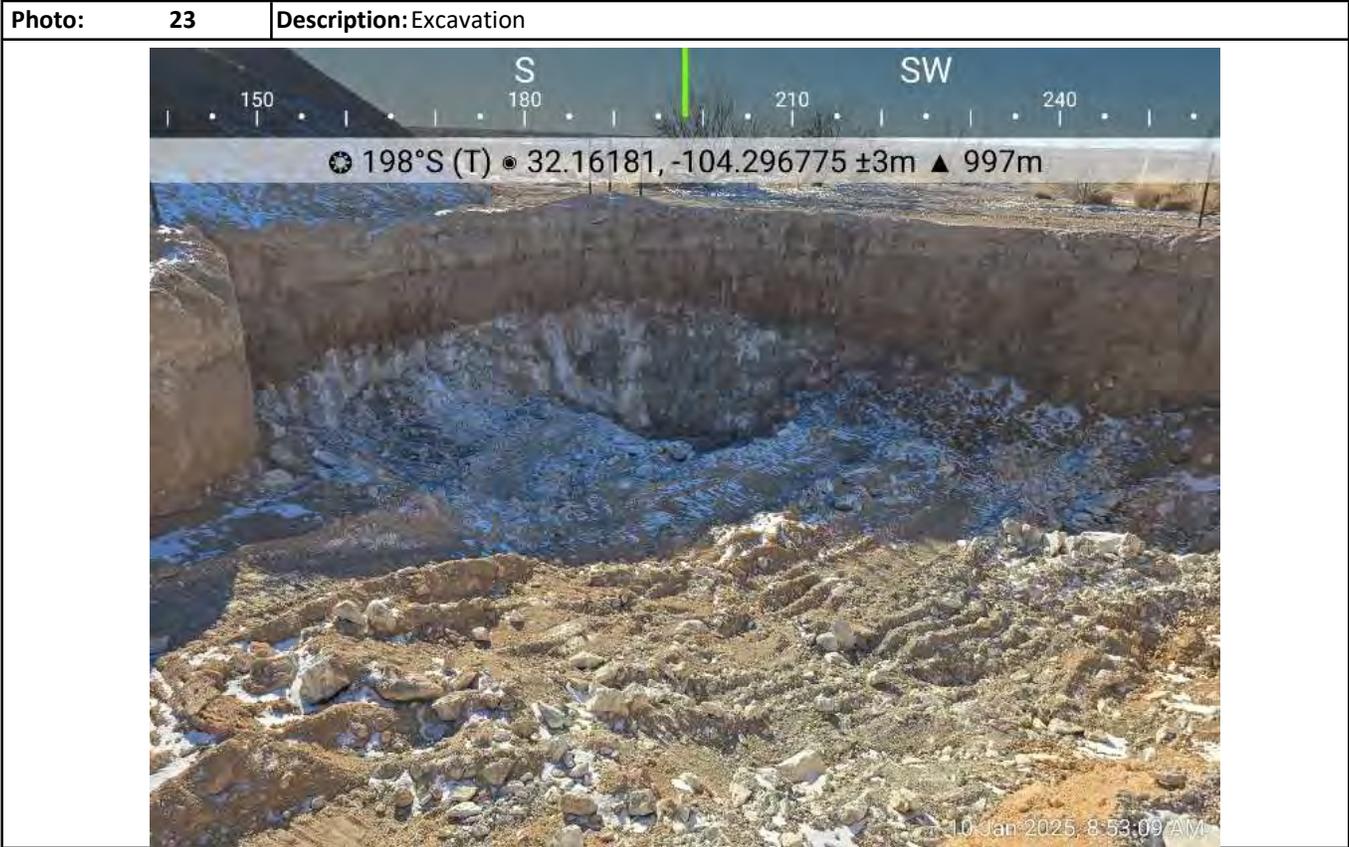
Photographs



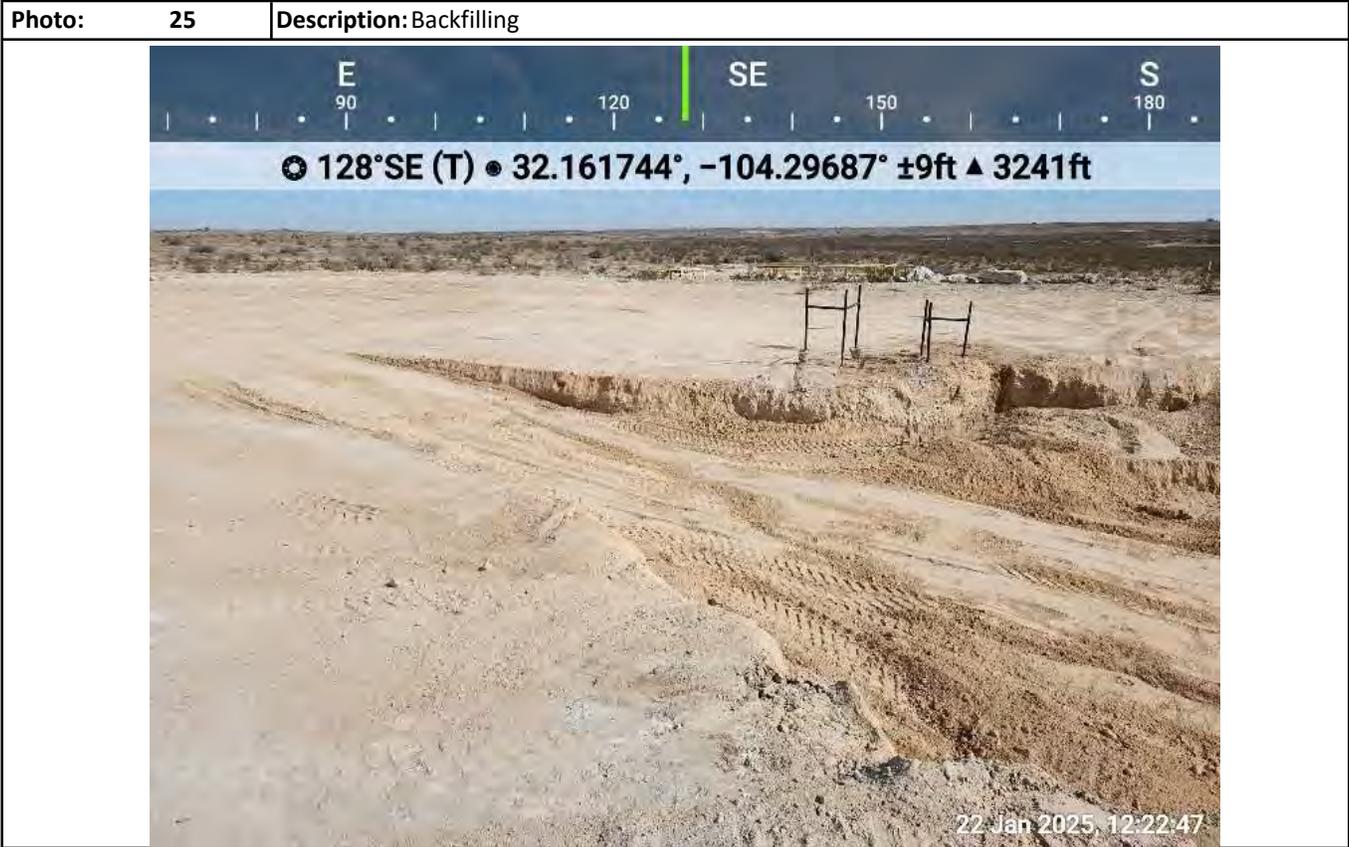
Photographs



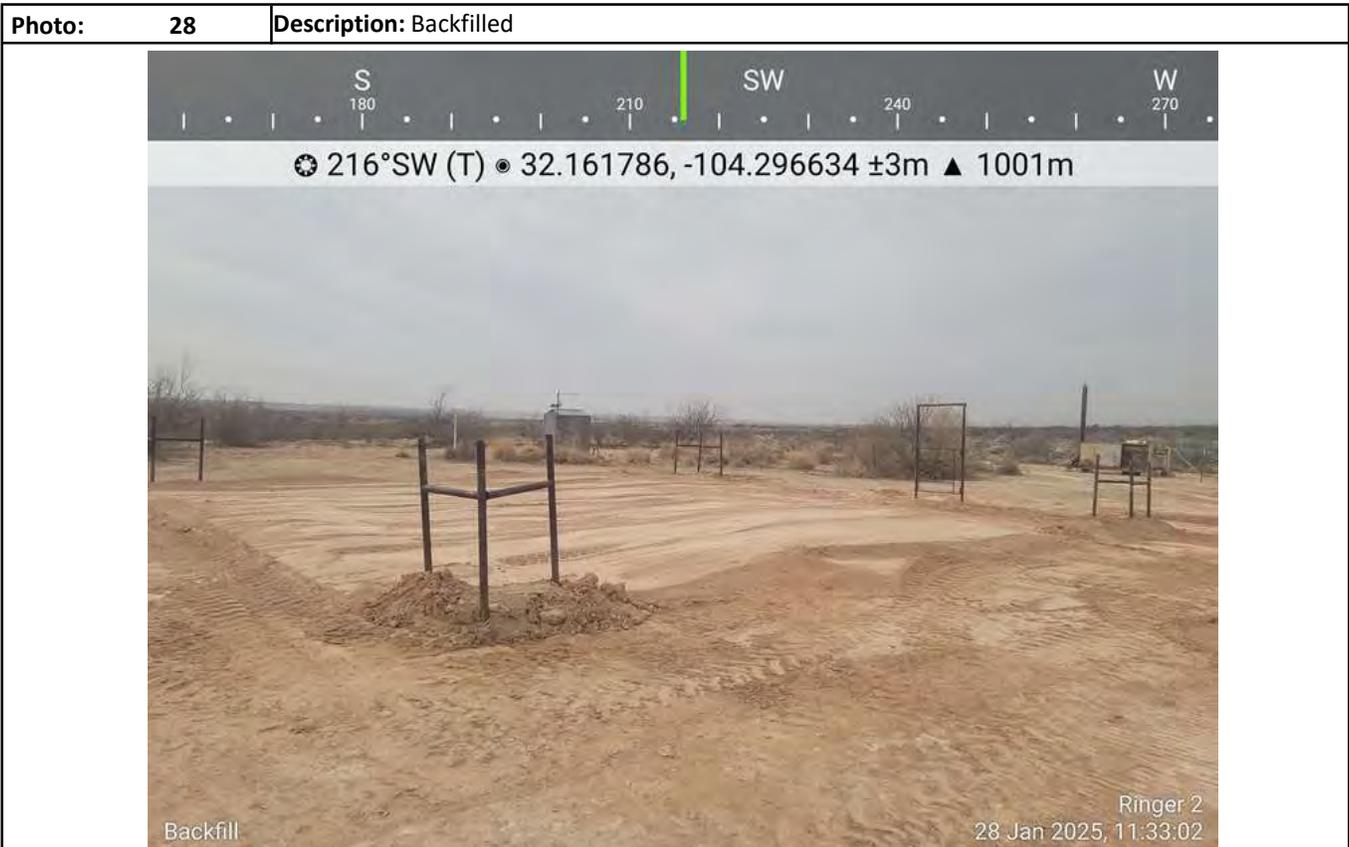
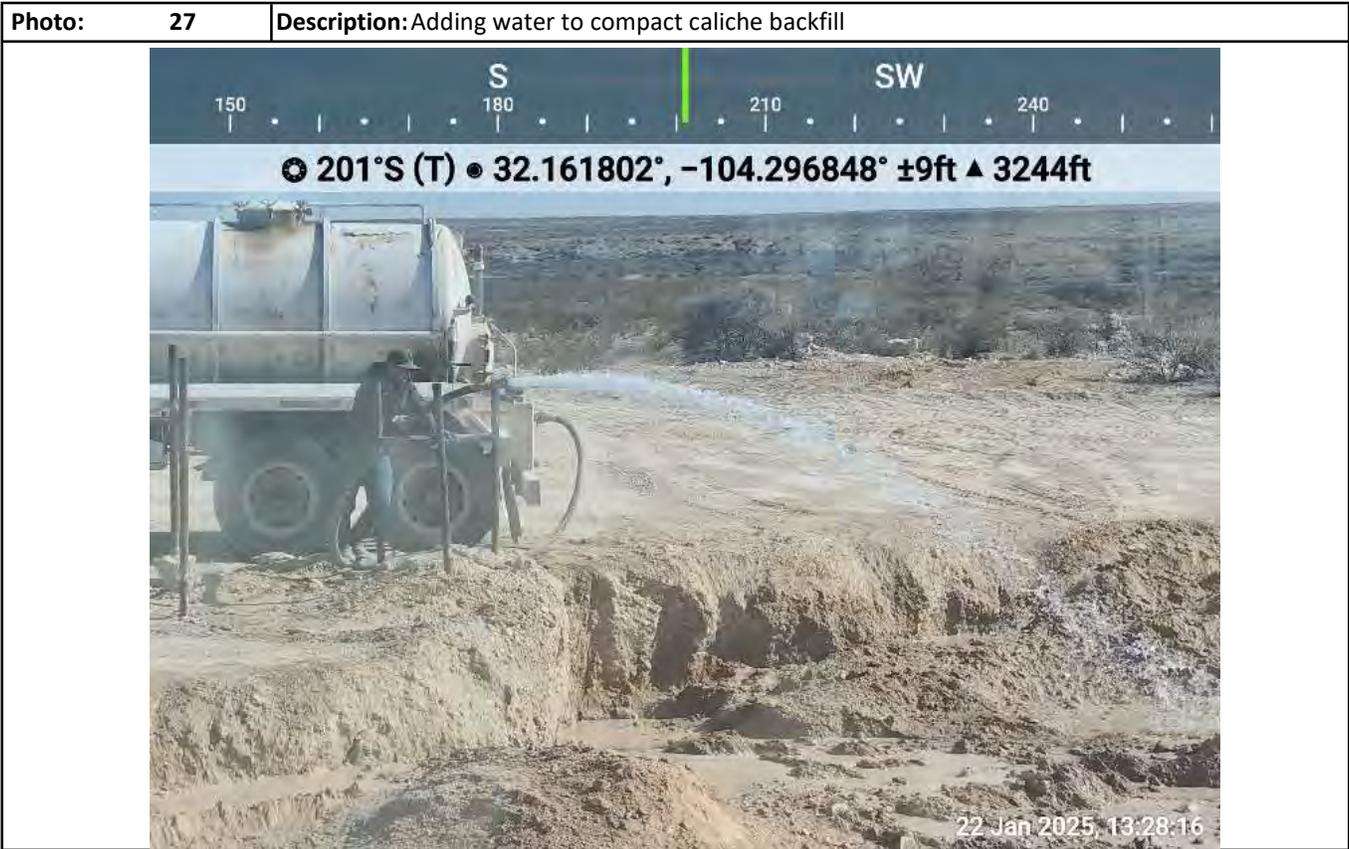
Photographs



Photographs



Photographs



Attachment V Field Data

Sample Log

Hungry Horse, LLC

Project: Ringer Federal #2

Date: 6/5/2024

Karst Yes Water <50'

GPS: 32.1619186, -104.2968369

Standard TPH 100mg/kg, Chloride 600mg/kg

Sampler: Jerry Heidelberg

Sample ID	Depth	PID/Odor	Chloride	GPS
HZ 1	Surf	No	1.8 @ 43x4 = 172	
	1'	No	1.6 @ 36x4 = 144	
HZ 2	Surf	No	2.0 @ 49x4 = 196	
	1'	No	1.8 @ 43x4 = 172	
HZ 3	Surf	No	1.6 @ 36x4 = 144	
	1'	No	1.4 @ 35x4 = 120	
HZ 4	Surf	No	2.0 @ 49x4 = 196	
	1'	No	1.8 @ 43x4 = 172	
SP1	Surf	Yes	5.4 @ 21.4x4 = 1,056	
	1'	No	2.4 @ 65x4 = 260	
	2'	Little	2.0 @ 49x4 = 196	
	3'	Little	4.8 @ 210x4 = 840	
	4'	No	1.4 @ 30x4 = 120	
SP2	Surf	Yes	4.8 @ 897x4 = 3,588	
	1'		6.4 @ 377x4 = 1,528	
	2'		5.6 @ 284x4 = 1,576	
	3'		7.0 @ 465x4 = 1,860	
	4'		7.0 @ 465x4 = 1,860	
	5'		7.8 @ 620x4 = 2,480	
	8'		7.8 @ 620x4 = 2,480	
	10'		1.2 > 100	
SP3	Surf	No	1.8 @ 43x4 = 172	
	1'	No	2.8 @ 88x4 = 332	
	2'			
	3'			
	4'			
	6'			
	8'			
	10'			
	12'			

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Test Trench = TT1 @ ##

Floor = FL1 etc

Refusal = SP1 @ 4'-R

Resamples = SP1b @ 5' or SW #1b

Sidewall = SW1 etc

GPS Sample Points, Center of Comp Areas

Stockpile = Stockpile #1

Attachment VI

Laboratory Analytical Results



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

December 11, 2020

Kristin Pope

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX: (505) 266-0745

RE: Murchison Ringer Fed 2 Release

OrderNo.: 2012240

Dear Kristin Pope:

Hall Environmental Analysis Laboratory received 14 sample(s) on 12/4/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-3 @ 6-8' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 11/30/2020 1:22:00 PM

Lab ID: 2012240-001

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1800	60		mg/Kg	20	12/7/2020 11:54:43 PM	56845
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	26	9.9		mg/Kg	1	12/7/2020 1:42:52 PM	56808
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2020 1:42:52 PM	56808
Surr: DNOP	102	30.4-154		%Rec	1	12/7/2020 1:42:52 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	55	25		mg/Kg	5	12/6/2020 1:38:07 AM	56805
Surr: BFB	148	75.3-105	S	%Rec	5	12/6/2020 1:38:07 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/6/2020 1:38:07 AM	56805
Toluene	ND	0.25		mg/Kg	5	12/6/2020 1:38:07 AM	56805
Ethylbenzene	ND	0.25		mg/Kg	5	12/6/2020 1:38:07 AM	56805
Xylenes, Total	2.6	0.49		mg/Kg	5	12/6/2020 1:38:07 AM	56805
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	5	12/6/2020 1:38:07 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-3 @ 12-14' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 11/30/2020 2:05:00 PM

Lab ID: 2012240-002

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	290	60		mg/Kg	20	12/8/2020 7:36:52 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	380	9.5		mg/Kg	1	12/7/2020 2:12:09 PM	56808
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/7/2020 2:12:09 PM	56808
Surr: DNOP	87.0	30.4-154		%Rec	1	12/7/2020 2:12:09 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	170	25		mg/Kg	5	12/6/2020 3:12:08 AM	56805
Surr: BFB	253	75.3-105	S	%Rec	5	12/6/2020 3:12:08 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/6/2020 3:12:08 AM	56805
Toluene	ND	0.25		mg/Kg	5	12/6/2020 3:12:08 AM	56805
Ethylbenzene	ND	0.25		mg/Kg	5	12/6/2020 3:12:08 AM	56805
Xylenes, Total	4.1	0.49		mg/Kg	5	12/6/2020 3:12:08 AM	56805
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	5	12/6/2020 3:12:08 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-3 @ 24-29' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 11/30/2020 2:56:00 PM

Lab ID: 2012240-003

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	100	60		mg/Kg	20	12/8/2020 7:49:17 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	83	9.5		mg/Kg	1	12/7/2020 2:21:54 PM	56808
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/7/2020 2:21:54 PM	56808
Surr: DNOP	92.4	30.4-154		%Rec	1	12/7/2020 2:21:54 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	32	25		mg/Kg	5	12/6/2020 4:47:28 AM	56805
Surr: BFB	130	75.3-105	S	%Rec	5	12/6/2020 4:47:28 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/6/2020 4:47:28 AM	56805
Toluene	ND	0.25		mg/Kg	5	12/6/2020 4:47:28 AM	56805
Ethylbenzene	ND	0.25		mg/Kg	5	12/6/2020 4:47:28 AM	56805
Xylenes, Total	1.3	0.50		mg/Kg	5	12/6/2020 4:47:28 AM	56805
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	5	12/6/2020 4:47:28 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-3 @ 34' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 11/30/2020 3:21:00 PM

Lab ID: 2012240-004

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	12/8/2020 8:01:42 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/7/2020 2:31:37 PM	56808
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2020 2:31:37 PM	56808
Surr: DNOP	84.9	30.4-154		%Rec	1	12/7/2020 2:31:37 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2020 5:11:17 AM	56805
Surr: BFB	98.4	75.3-105		%Rec	1	12/6/2020 5:11:17 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/6/2020 5:11:17 AM	56805
Toluene	ND	0.049		mg/Kg	1	12/6/2020 5:11:17 AM	56805
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 5:11:17 AM	56805
Xylenes, Total	ND	0.098		mg/Kg	1	12/6/2020 5:11:17 AM	56805
Surr: 4-Bromofluorobenzene	97.6	80-120		%Rec	1	12/6/2020 5:11:17 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-3 @ 49' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 11/30/2020 4:38:00 PM

Lab ID: 2012240-005

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	12/8/2020 8:14:06 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/7/2020 2:41:22 PM	56808
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/7/2020 2:41:22 PM	56808
Surr: DNOP	106	30.4-154		%Rec	1	12/7/2020 2:41:22 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/6/2020 5:35:00 AM	56805
Surr: BFB	104	75.3-105		%Rec	1	12/6/2020 5:35:00 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/6/2020 5:35:00 AM	56805
Toluene	ND	0.048		mg/Kg	1	12/6/2020 5:35:00 AM	56805
Ethylbenzene	ND	0.048		mg/Kg	1	12/6/2020 5:35:00 AM	56805
Xylenes, Total	0.57	0.095		mg/Kg	1	12/6/2020 5:35:00 AM	56805
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	12/6/2020 5:35:00 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-1 @ 6-8' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 9:54:00 AM

Lab ID: 2012240-006

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1600	61		mg/Kg	20	12/8/2020 8:51:20 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	730	9.3		mg/Kg	1	12/7/2020 2:51:04 PM	56808
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/7/2020 2:51:04 PM	56808
Surr: DNOP	106	30.4-154		%Rec	1	12/7/2020 2:51:04 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	210	5.0		mg/Kg	1	12/6/2020 5:58:39 AM	56805
Surr: BFB	712	75.3-105	S	%Rec	1	12/6/2020 5:58:39 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/6/2020 5:58:39 AM	56805
Toluene	0.20	0.050		mg/Kg	1	12/6/2020 5:58:39 AM	56805
Ethylbenzene	ND	0.050		mg/Kg	1	12/6/2020 5:58:39 AM	56805
Xylenes, Total	8.5	0.099		mg/Kg	1	12/6/2020 5:58:39 AM	56805
Surr: 4-Bromofluorobenzene	126	80-120	S	%Rec	1	12/6/2020 5:58:39 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-1 @ 9-10' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 10:12:00 AM

Lab ID: 2012240-007

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1400	59		mg/Kg	20	12/8/2020 9:03:45 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1900	98		mg/Kg	10	12/9/2020 3:48:55 PM	56808
Motor Oil Range Organics (MRO)	ND	490	D	mg/Kg	10	12/9/2020 3:48:55 PM	56808
Surr: DNOP	0	30.4-154	S	%Rec	10	12/9/2020 3:48:55 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	850	25		mg/Kg	5	12/6/2020 6:22:16 AM	56805
Surr: BFB	682	75.3-105	S	%Rec	5	12/6/2020 6:22:16 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/6/2020 6:22:16 AM	56805
Toluene	0.85	0.25		mg/Kg	5	12/6/2020 6:22:16 AM	56805
Ethylbenzene	ND	0.25		mg/Kg	5	12/6/2020 6:22:16 AM	56805
Xylenes, Total	25	0.49		mg/Kg	5	12/6/2020 6:22:16 AM	56805
Surr: 4-Bromofluorobenzene	118	80-120		%Rec	5	12/6/2020 6:22:16 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-1 @ 12-14' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 10:27:00 AM

Lab ID: 2012240-008

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	120	60		mg/Kg	20	12/8/2020 9:16:09 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	11	8.9		mg/Kg	1	12/7/2020 3:10:28 PM	56808
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/7/2020 3:10:28 PM	56808
Surr: DNOP	81.4	30.4-154		%Rec	1	12/7/2020 3:10:28 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2020 6:46:08 AM	56805
Surr: BFB	117	75.3-105	S	%Rec	1	12/6/2020 6:46:08 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/6/2020 6:46:08 AM	56805
Toluene	ND	0.049		mg/Kg	1	12/6/2020 6:46:08 AM	56805
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 6:46:08 AM	56805
Xylenes, Total	ND	0.099		mg/Kg	1	12/6/2020 6:46:08 AM	56805
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	12/6/2020 6:46:08 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-2 @ 6-8' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 11:14:00 AM

Lab ID: 2012240-009

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3600	150		mg/Kg	50	12/9/2020 5:30:23 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	6200	940		mg/Kg	100	12/8/2020 10:01:23 AM	56808
Motor Oil Range Organics (MRO)	ND	4700	D	mg/Kg	100	12/8/2020 10:01:23 AM	56808
Surr: DNOP	0	30.4-154	S	%Rec	100	12/8/2020 10:01:23 AM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JDC
Gasoline Range Organics (GRO)	3400	250		mg/Kg	50	12/7/2020 9:06:18 AM	56805
Surr: BFB	285	75.3-105	S	%Rec	50	12/7/2020 9:06:18 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/6/2020 7:10:07 AM	56805
Toluene	24	0.25		mg/Kg	5	12/6/2020 7:10:07 AM	56805
Ethylbenzene	12	0.25		mg/Kg	5	12/6/2020 7:10:07 AM	56805
Xylenes, Total	320	4.9		mg/Kg	50	12/7/2020 9:06:18 AM	56805
Surr: 4-Bromofluorobenzene	163	80-120	S	%Rec	5	12/6/2020 7:10:07 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-2 @ 12.5' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 11:38:00 AM

Lab ID: 2012240-010

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	240	60		mg/Kg	20	12/8/2020 9:40:58 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	180	9.6		mg/Kg	1	12/7/2020 3:29:51 PM	56808
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/7/2020 3:29:51 PM	56808
Surr: DNOP	84.0	30.4-154		%Rec	1	12/7/2020 3:29:51 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	83	4.9		mg/Kg	1	12/6/2020 7:57:52 AM	56805
Surr: BFB	398	75.3-105	S	%Rec	1	12/6/2020 7:57:52 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/6/2020 7:57:52 AM	56805
Toluene	ND	0.049		mg/Kg	1	12/6/2020 7:57:52 AM	56805
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 7:57:52 AM	56805
Xylenes, Total	1.3	0.098		mg/Kg	1	12/6/2020 7:57:52 AM	56805
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	12/6/2020 7:57:52 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-2 @ 18' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 12:51:00 PM

Lab ID: 2012240-011

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	12/8/2020 9:53:23 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/7/2020 3:39:31 PM	56808
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/7/2020 3:39:31 PM	56808
Surr: DNOP	45.8	30.4-154		%Rec	1	12/7/2020 3:39:31 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/6/2020 9:32:24 AM	56805
Surr: BFB	101	75.3-105		%Rec	1	12/6/2020 9:32:24 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/6/2020 9:32:24 AM	56805
Toluene	ND	0.050		mg/Kg	1	12/6/2020 9:32:24 AM	56805
Ethylbenzene	ND	0.050		mg/Kg	1	12/6/2020 9:32:24 AM	56805
Xylenes, Total	ND	0.099		mg/Kg	1	12/6/2020 9:32:24 AM	56805
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	12/6/2020 9:32:24 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-4 @ 6-8' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 1:46:00 PM

Lab ID: 2012240-012

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	740	61		mg/Kg	20	12/8/2020 10:05:46 PM	56857
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	6000	960		mg/Kg	100	12/8/2020 10:24:58 AM	56808
Motor Oil Range Organics (MRO)	ND	4800	D	mg/Kg	100	12/8/2020 10:24:58 AM	56808
Surr: DNOP	0	30.4-154	S	%Rec	100	12/8/2020 10:24:58 AM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1800	25		mg/Kg	5	12/6/2020 9:56:05 AM	56805
Surr: BFB	1090	75.3-105	S	%Rec	5	12/6/2020 9:56:05 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/6/2020 9:56:05 AM	56805
Toluene	10	0.25		mg/Kg	5	12/6/2020 9:56:05 AM	56805
Ethylbenzene	8.6	0.25		mg/Kg	5	12/6/2020 9:56:05 AM	56805
Xylenes, Total	200	5.0		mg/Kg	50	12/7/2020 9:29:47 AM	56805
Surr: 4-Bromofluorobenzene	159	80-120	S	%Rec	5	12/6/2020 9:56:05 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-4 @ 16-18' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 2:24:00 PM

Lab ID: 2012240-013

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	450	60		mg/Kg	20	12/9/2020 11:42:56 AM	56879
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2020 8:27:14 AM	56808
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/8/2020 8:27:14 AM	56808
Surr: DNOP	85.9	30.4-154		%Rec	1	12/8/2020 8:27:14 AM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	16	4.9		mg/Kg	1	12/6/2020 10:19:39 AM	56805
Surr: BFB	169	75.3-105	S	%Rec	1	12/6/2020 10:19:39 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/6/2020 10:19:39 AM	56805
Toluene	ND	0.049		mg/Kg	1	12/6/2020 10:19:39 AM	56805
Ethylbenzene	0.061	0.049		mg/Kg	1	12/6/2020 10:19:39 AM	56805
Xylenes, Total	0.33	0.098		mg/Kg	1	12/6/2020 10:19:39 AM	56805
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	12/6/2020 10:19:39 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2012240**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: SB-4 @ 24' bgs

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 2:59:00 PM

Lab ID: 2012240-014

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	230	60		mg/Kg	20	12/9/2020 11:55:20 AM	56879
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/7/2020 4:08:41 PM	56808
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2020 4:08:41 PM	56808
Surr: DNOP	39.1	30.4-154		%Rec	1	12/7/2020 4:08:41 PM	56808
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2020 10:43:17 AM	56805
Surr: BFB	103	75.3-105		%Rec	1	12/6/2020 10:43:17 AM	56805
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/6/2020 10:43:17 AM	56805
Toluene	ND	0.049		mg/Kg	1	12/6/2020 10:43:17 AM	56805
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2020 10:43:17 AM	56805
Xylenes, Total	ND	0.099		mg/Kg	1	12/6/2020 10:43:17 AM	56805
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	12/6/2020 10:43:17 AM	56805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012240

11-Dec-20

Client: R.T. Hicks Consultants, LTD
Project: Murchison Ringer Fed 2 Release

Sample ID: MB-56845	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56845	RunNo: 73830								
Prep Date: 12/7/2020	Analysis Date: 12/7/2020	SeqNo: 2604077	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56845	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56845	RunNo: 73830								
Prep Date: 12/7/2020	Analysis Date: 12/7/2020	SeqNo: 2604078	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Sample ID: MB-56857	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56857	RunNo: 73879								
Prep Date: 12/8/2020	Analysis Date: 12/8/2020	SeqNo: 2605300	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56857	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56857	RunNo: 73879								
Prep Date: 12/8/2020	Analysis Date: 12/8/2020	SeqNo: 2605301	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.8	90	110			

Sample ID: MB-56879	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56879	RunNo: 73916								
Prep Date: 12/9/2020	Analysis Date: 12/9/2020	SeqNo: 2606650	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56879	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56879	RunNo: 73916								
Prep Date: 12/9/2020	Analysis Date: 12/9/2020	SeqNo: 2606651	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012240

11-Dec-20

Client: R.T. Hicks Consultants, LTD
Project: Murchison Ringer Fed 2 Release

Sample ID: MB-56808	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56808	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603180	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	30.4	154			

Sample ID: MB-56810	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56810	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603181	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		108	30.4	154			

Sample ID: LCS-56808	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56808	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603182	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	70	130			
Surr: DNOP	5.5		5.000		111	30.4	154			

Sample ID: LCS-56810	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56810	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603183	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	30.4	154			

Sample ID: 2012240-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-3 @ 6-8' bgs	Batch ID: 56808	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603184	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	94	9.3	46.60	25.89	145	15	184			
Surr: DNOP	4.6		4.660		98.0	30.4	154			

Sample ID: 2012240-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-3 @ 6-8' bgs	Batch ID: 56808	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603186	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	70	9.6	48.08	25.89	92.5	15	184	28.4	23.9	R

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012240

11-Dec-20

Client: R.T. Hicks Consultants, LTD
Project: Murchison Ringer Fed 2 Release

Sample ID: 2012240-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SB-3 @ 6-8' bgs	Batch ID: 56808	RunNo: 73838								
Prep Date: 12/5/2020	Analysis Date: 12/7/2020	SeqNo: 2603186	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		4.808		104	30.4	154	0	0	

Sample ID: LCS-56809	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56809	RunNo: 73877								
Prep Date: 12/5/2020	Analysis Date: 12/8/2020	SeqNo: 2605170	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		118	30.4	154			

Sample ID: MB-56809	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56809	RunNo: 73877								
Prep Date: 12/5/2020	Analysis Date: 12/8/2020	SeqNo: 2605176	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	30.4	154			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012240

11-Dec-20

Client: R.T. Hicks Consultants, LTD
Project: Murchison Ringer Fed 2 Release

Sample ID: mb-56805	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 56805	RunNo: 73815								
Prep Date: 12/4/2020	Analysis Date: 12/6/2020	SeqNo: 2602155	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	75.3	105			

Sample ID: lcs-56805	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 56805	RunNo: 73815								
Prep Date: 12/4/2020	Analysis Date: 12/5/2020	SeqNo: 2602156	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.9	72.5	106			
Surr: BFB	1100		1000		112	75.3	105			S

Sample ID: 2012240-002AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SB-3 @ 12-14' bgs	Batch ID: 56805	RunNo: 73815								
Prep Date: 12/4/2020	Analysis Date: 12/6/2020	SeqNo: 2602159	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	240	25	24.75	170.6	280	61.3	114			S
Surr: BFB	15000		4950		293	75.3	105			S

Sample ID: 2012240-002AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SB-3 @ 12-14' bgs	Batch ID: 56805	RunNo: 73815								
Prep Date: 12/4/2020	Analysis Date: 12/6/2020	SeqNo: 2602160	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	190	25	24.88	170.6	72.5	61.3	114	23.9	20	R
Surr: BFB	13000		4975		255	75.3	105	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012240

11-Dec-20

Client: R.T. Hicks Consultants, LTD
Project: Murchison Ringer Fed 2 Release

Sample ID: mb-56805	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 56805	RunNo: 73815								
Prep Date: 12/4/2020	Analysis Date: 12/6/2020	SeqNo: 2602207	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

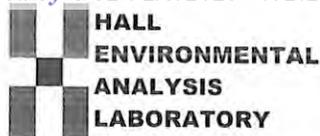
Sample ID: LCS-56805	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 56805	RunNo: 73815								
Prep Date: 12/4/2020	Analysis Date: 12/6/2020	SeqNo: 2602208	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: 2012240-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-3 @ 6-8' bgs	Batch ID: 56805	RunNo: 73815								
Prep Date: 12/4/2020	Analysis Date: 12/6/2020	SeqNo: 2602210	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.12	0.9766	0.06755	102	76.3	120			
Toluene	1.2	0.24	0.9766	0.2051	103	78.5	120			
Ethylbenzene	1.2	0.24	0.9766	0.2061	99.7	78.1	124			
Xylenes, Total	4.2	0.49	2.930	2.580	56.5	79.3	125			S
Surr: 4-Bromofluorobenzene	4.9		4.883		101	80	120			

Sample ID: 2012240-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-3 @ 6-8' bgs	Batch ID: 56805	RunNo: 73815								
Prep Date: 12/4/2020	Analysis Date: 12/6/2020	SeqNo: 2602211	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.12	0.9804	0.06755	96.8	76.3	120	4.18	20	
Toluene	1.2	0.25	0.9804	0.2051	99.1	78.5	120	3.13	20	
Ethylbenzene	1.2	0.25	0.9804	0.2061	98.0	78.1	124	1.15	20	
Xylenes, Total	4.6	0.49	2.941	2.580	67.1	79.3	125	7.23	20	S
Surr: 4-Bromofluorobenzene	5.1		4.902		104	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **R.T. Hicks Consultants, LTD** Work Order Number: **2012240** RcptNo: 1

Received By: **Sean Livingston** 12/4/2020 8:00:00 AM

Completed By: **Emily Mocho** 12/4/2020 8:58:40 AM

Reviewed By: **SGC 12/4/20**

Chain of Custody

- 1. Is Chain of Custody complete? Yes No Not Present
- 2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes No NA
- 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 5. Sample(s) in proper container(s)? Yes No
- 6. Sufficient sample volume for indicated test(s)? Yes No
- 7. Are samples (except VOA and ONG) properly preserved? Yes No
- 8. Was preservative added to bottles? Yes No NA
- 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
- 10. Were any sample containers received broken? Yes No
- 11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 12. Are matrices correctly identified on Chain of Custody? Yes No
- 13. Is it clear what analyses were requested? Yes No
- 14. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: **20**
12/4/20
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good	Yes			
2	0.2	Good	Yes			
3	1.5	Good	Yes			

Chain-of-Custody Record

Client: R. T. Hicks Consultants

901 Rio Grande Blvd NW

Mailing Address: Suite F-142

Albuquerque, NM 87104

Phone #: (505) 266-5004

email or Fax#: R@rthicksconsult.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation:

NELAP Other

EDD (Type)

Turn-Around Time: 5 Day

Standard Rush

Project Name:

Murchison-Ringer Fed #2 Release

Project #:

Project Manager:

Kristin Pope

Sampler: Kristin Pope

On Ice: Yes No

Sample Temperature: See Remarks

Container Type and #

1 glass

ice

HEAL No.

20122410

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
11-30-20	1322	soil	SB-3 @ 6-8' bgs	1 glass	ice	20122410
	1405		SB-3 @ 12-14' bgs			001
	1456		SB-3 @ 24-29' bgs			002
	1521		SB-3 @ 34' bgs			003
	1638		SB-3 @ 49' bgs			004
12-1-20	0954		SB-3 @ 6-8' bgs			005
	1012		SB-1 @ 9-10' bgs			006
	1027		SB-1 @ 12-14' bgs			007
	1114		SB-2 @ 6-8' bgs			008
	1138		SB-2 @ 12.5' bgs			009
	1251		SB-2 @ 18' bgs			010
	1346		SB-4 @ 6-8' bgs			011
						012

Received by:

Alumina

Date

12/3/20 1:30

Received by:

Date

12/4/20 8:00

Remarks: Email to kristin@rthicksconsult.com, R@...

0.3 - 0.2 = 0.1^u

0.4 - 0.2 = 0.2^u

1.7 - 0.2 = 1.5^u

Analysis Request

BTEX + MTBE + TMB's (6021)	<input checked="" type="checkbox"/>
BTEX + MTBE + TPH (Gas only)	<input checked="" type="checkbox"/>
TPH Method 8015B (Gas/Diese)	<input checked="" type="checkbox"/>
TPH (Method 418.1)	<input checked="" type="checkbox"/>
EDB (Method 504.1)	<input checked="" type="checkbox"/>
8310 (PNA or PAH)	<input checked="" type="checkbox"/>
RCRA 8 Metals	<input checked="" type="checkbox"/>
Anions (Cl ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ⁻ , SO ₄ ⁻)	<input checked="" type="checkbox"/>
8081 Pesticides / 8082 PCB's	<input checked="" type="checkbox"/>
8260B (VOA)	<input checked="" type="checkbox"/>
8270 (Semi-VOA)	<input checked="" type="checkbox"/>
Air Bubbles (Y or N)	<input type="checkbox"/>



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Chain-of-Custody Record

Client: R. T. Hicks Consultants

901 Rio Grande Blvd NW

Mailing Address: Suite F-142

Albuquerque, NM 87104

Phone #: (505) 266-5004

email or Fax#: R@rthicksconsult.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation:

NELAP Other

EDD (Type)

Turn-Around Time: 5 Day

Standard Rush

Project Name:

Murchison-Ringer Fed #2 Release

Project #:

Project Manager:

Kristin Pope

Sampler: Kristin Pope

On Ice: Yes No

Sample Temperature: see remarks

Container Type and #

Preservative Type

HEAL No.

2012240

ice

1 glass

soil

1424

12-1-20

013

"

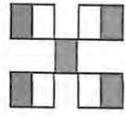
"

"

"

5B-4@ 16-18' bag

5B-4@ 24' bag



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

<input checked="" type="checkbox"/>	BTEX + MTBE + TMB's (8021)
<input checked="" type="checkbox"/>	BTEX + MTBE + TPH (Gas only)
<input checked="" type="checkbox"/>	TPH Method 8015B (Gas/Diesel)
<input checked="" type="checkbox"/>	TPH (Method 418.1) <i>TPH</i>
<input type="checkbox"/>	EDB (Method 504.1)
<input type="checkbox"/>	8310 (PNA or PAH)
<input type="checkbox"/>	RCRA 8 Metals
<input checked="" type="checkbox"/>	Anions (Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
<input type="checkbox"/>	8081 Pesticides / 8082 PCB's
<input type="checkbox"/>	8260B (VOA)
<input type="checkbox"/>	8270 (Semi-VOA)
<input type="checkbox"/>	Air Bubbles (Y or N)

Received by: *Alumina* Date: 12/3/20 Time: 11:30

Received by: *SGL courier* Date: 12/4/20 Time: 8:00

Remarks: Email to kristin@rthicksconsult.com, R@...

0.3-0.2=0.1^u

0.4-0.2=0.2^u

1.7-0.2=1.5^u



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

December 11, 2020

Kristin Pope

R.T. Hicks Consultants, LTD

901 Rio Grande Blvd. NW

Suite F-142

Albuquerque, NM 87104

TEL: (505) 266-5004

FAX: (505) 266-0745

RE: Murchison Ringer Fed 2 Release

OrderNo.: 2012239

Dear Kristin Pope:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/4/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2012239**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 12' N @ 0-2' BGS

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 7:30:00 AM

Lab ID: 2012239-001

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4900	150		mg/Kg	50	12/8/2020 11:45:02 PM	56845

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2012239**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 12' N @ 2-4' BGS

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 7:41:00 AM

Lab ID: 2012239-002

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1700	59		mg/Kg	20	12/7/2020 10:52:42 PM	56845

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2012239**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 12' N @ 4' BGS

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 7:54:00 AM

Lab ID: 2012239-003

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2700	150		mg/Kg	50	12/8/2020 11:57:27 PM	56845

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2012239**

Date Reported: **12/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 12' N @ 10' BGS

Project: Murchison Ringer Fed 2 Release

Collection Date: 12/1/2020 8:24:00 AM

Lab ID: 2012239-004

Matrix: SOIL

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	76	59		mg/Kg	20	12/7/2020 11:42:19 PM	56845

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012239

11-Dec-20

Client: R.T. Hicks Consultants, LTD

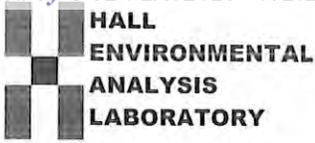
Project: Murchison Ringer Fed 2 Release

Sample ID: MB-56845	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56845	RunNo: 73830								
Prep Date: 12/7/2020	Analysis Date: 12/7/2020	SeqNo: 2604077	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56845	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56845	RunNo: 73830								
Prep Date: 12/7/2020	Analysis Date: 12/7/2020	SeqNo: 2604078	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: R.T. Hicks Consultants, LTD

Work Order Number: 2012239

RcptNo: 1

Received By: Sean Livingston

12/4/2020 8:00:00 AM

Signature: Sean Livingston

Completed By: Emily Mocho

12/4/2020 8:52:48 AM

Reviewed By: [Signature]

12/04/20

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0° C? Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: SGL 12/4/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 3 rows of data.

Chain-of-Custody Record

Client: R. T. Hicks Consultants

901 Rio Grande Blvd NW

Mailing Address: Suite F-142

Albuquerque, NM 87104

Phone #: (505) 266-5004

email or Fax#: R@thicksconsult.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation:

NELAP Other

EDD (Type)

Turn-Around Time: 5 Days
 Standard Rush

Project Name: Murchison-Ringer Fed #2 Release

Project #: Project #:

Project Manager: Kristin Pope

Sampler: Kristin Pope

On Ice: Yes No

Sample Temperature: See Remarks

Container Type and #

Preservative Type

HEAL No. 2012239

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
12-12-20	0730	soil	12'N @ 0-2' BGS	1 glass	ice	001
	0741		12'N @ 2-4' BGS			002
	0754		12'N @ 4' BGS			003
	0824		12'N @ 10' BGS			004



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
							X				
							X				
							X				

Remarks: Email to kristin@thicksconsult.com, R@...

0.3-0.2 = 0.1%
 0.4-0.2 = 0.2%
 1.7-0.2 = 1.5%

Received by: *Alumina* Date: 12/13/20 Time: 11:30
 Received by: *SGL counter* Date: 12/14/20 Time: 8:00

Relinquished by: *Kristin Pope* Date: 1900
 Relinquished by: *Alumina*

If necessary, samples submitted to Hall/Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

November 03, 2020

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: RINGER FED #2 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/21/20 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 with a large, flowing "C" and "K".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/21/2020	Sampling Date:	10/14/2020
Reported:	11/03/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 1 @ 0-2' (H002799-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/29/2020	ND	416	104	400	3.77	

Sample ID: SP 1 @ 2-4' (H002799-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/29/2020	ND	416	104	400	3.77	

Sample ID: SP 2 @ 0-2' (H002799-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	10/29/2020	ND	432	108	400	3.77	QM-07

Sample ID: SP 2 @ 2-4' (H002799-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	10/29/2020	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/21/2020	Sampling Date:	10/14/2020
Reported:	11/03/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 3 @ 0-2' (H002799-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/29/2020	ND	432	108	400	3.77	

Sample ID: SP 3 @ 2-4' (H002799-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	10/29/2020	ND	432	108	400	3.77	

Sample ID: SP 4 @ 0-2' (H002799-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	10/29/2020	ND	432	108	400	3.77	

Sample ID: SP 4 @ 2-4' (H002799-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/29/2020	ND	432	108	400	3.77	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: RT Hicks Consultants
 Project Manager: Kristin Pope
 Address: 901 Rio Grande Blvd NW, Suite E-142
 City: Albuquerque State: NM Zip: 87104
 Phone #: 505-466-5004 Fax #: _____
 Project #: _____ Project Owner: Murchison
 Project Name: Ringer Fed #2 Release
 Project Location: Eddy Co.
 Sampler Name: Kristin Pope
 P.O. #: _____ Company: RT Hicks
 Attn: Randy Hicks
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		DATE	TIME	REMARKS	ANALYSIS REQUEST	
		(G)RAB OR (C)OMP.	# CONTAINERS				GROUNDWATER	WASTEWATER
H002799	1 SP 1 @ 0-2 ft	C	1	10-14-20	0918	Chloride 2015M FAN (extraction) STEX	Hold	
	2 SP 1 @ 2-4 ft	C	1		0933			
	3 SP 2 @ 2-4 ft	C	1		0933			
	4 SP 2 @ 2-4 ft	C	1		0942			
	5 SP 3 @ 0-2 ft	C	1		0942			
	4 SP 3 @ 2-4 ft	C	1		0952			
	7 SP 4 @ 0-2 ft	C	1		0952			
	8 SP 4 @ 2-4 ft	C	1		0952			

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 analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Kristin Pope Date: 10-21-20 Received By: Murara Date: 10-21-20
 Relinquished By: _____ Date: _____ Received By: _____ Date: _____
 Turnaround Time: Standard Rush
 Thermometer ID: 402-70 #113
 Correction Factor: -0.4 C 10/21/20
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: RT Hicks consult.com, kristin@...
 REMARKS: Chloride only

Delivered By: (Circle One) UPS Bus Other: _____
 Observed Temp. °C: 5.9 Sample Condition: Cool Intact
 Corrected Temp. °C: _____
 CHECKED BY: (Initials) TP
 Turnaround Time: _____
 Bacteria (only) Sample Condition: Cool Intact
 Corrected Temp. °C: _____
 Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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

October 21, 2020

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: RINGER FED #2 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/16/20 12:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 1 @ 0-4' (H002759-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.35	2.50	10/19/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	76.2	5.00	10/19/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	35.3	5.00	10/19/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	639	15.0	10/19/2020	ND	5.14	85.7	6.00	15.6	
Total BTEX	754	27.5	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/19/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	8260	10.0	10/16/2020	ND	214	107	200	1.02		
DRO >C10-C28*	5720	10.0	10/16/2020	ND	206	103	200	0.404		
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND						

Surrogate: 1-Chlorooctane 411 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 1 @ 4.25' (H002759-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.92	2.50	10/19/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	124	5.00	10/19/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	47.6	5.00	10/19/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	879	15.0	10/19/2020	ND	5.14	85.7	6.00	15.6	
Total BTEX	1050	27.5	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/19/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	14000	100	10/19/2020	ND	214	107	200	1.02		
DRO >C10-C28*	8070	100	10/19/2020	ND	206	103	200	0.404		
EXT DRO >C28-C36	<100	100	10/19/2020	ND						

Surrogate: 1-Chlorooctane 365 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 2 @ 0-4' (H002759-03)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.83	2.50	10/19/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	83.2	5.00	10/19/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	40.3	5.00	10/19/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	784	15.0	10/19/2020	ND	5.14	85.7	6.00	15.6	
Total BTEX	910	27.5	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	10/19/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9170	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	6630	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 439 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 2 @ 4.25' (H002759-04)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.46	1.00	10/19/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	52.7	1.00	10/19/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	21.8	1.00	10/19/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	399	3.00	10/19/2020	ND	5.14	85.7	6.00	15.6	
Total BTEX	475	6.00	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	10/19/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	8280	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	5470	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 392 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 3 @ 0-4' (H002759-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	0.075	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	2.48	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTEX	2.56	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	10/19/2020	ND	400	100	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*	73.9	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	167	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 3 @ 4.25' (H002759-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	0.103	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	0.063	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	0.867	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTEX	1.03	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/19/2020	ND	400	100	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	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	14.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 4 @ 0-4' (H002759-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	58.7	5.00	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	31.3	5.00	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	560	15.0	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTEX	650	27.5	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	10/19/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	7560	10.0	10/16/2020	ND	214	107	200	1.02		
DRO >C10-C28*	6340	10.0	10/16/2020	ND	206	103	200	0.404		
EXT DRO >C28-C36	12.2	10.0	10/16/2020	ND						

Surrogate: 1-Chlorooctane 402 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 4 @ 4.25' (H002759-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	103	5.00	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	46.7	5.00	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	818	15.0	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTEX	968	27.5	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/19/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	9790	10.0	10/16/2020	ND	214	107	200	1.02		
DRO >C10-C28*	6880	10.0	10/16/2020	ND	206	103	200	0.404		
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND						

Surrogate: 1-Chlorooctane 456 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: BG @ 0-4' (H002759-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	<0.150	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTEX	<0.300	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/19/2020	ND	400	100	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	10/19/2020	ND	222	111	200	2.73	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	212	106	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/16/2020	Sampling Date:	10/14/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: BG @ 4.25' (H002759-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2020	ND	2.06	103	2.00	3.71	
Toluene*	0.139	0.050	10/19/2020	ND	2.10	105	2.00	3.84	
Ethylbenzene*	<0.050	0.050	10/19/2020	ND	2.12	106	2.00	4.18	
Total Xylenes*	0.435	0.150	10/19/2020	ND	6.13	102	6.00	4.09	
Total BTEX	0.574	0.300	10/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	10/19/2020	ND	400	100	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	10/19/2020	ND	222	111	200	2.73	
DRO >C10-C28*	<10.0	10.0	10/19/2020	ND	212	106	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	10/19/2020	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.9 % 42.2-156

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RT Hicks Consultants		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Kristin Pope		Address: 901 Rio Grande Blvd NW, Suite E-142		Company: RT Hicks			
City: Albuquerque		State: NM Zip: 87104		Attn: Randy Hicks			
Phone #: 505-466-5004		Fax #:		Address:			
Project #:		Project Owner: Murchison		City:			
Project Name: Pinger Fed #2 Release		State:		Zip:			
Project Location: Eddy Co.		Phone #:		Fax #:			
Sampler Name: Kristin Pope		FOR LAB USE ONLY		MATRIX		PRESERV	
Lab I.D. H005759		Sample I.D.		(G)RAB OR (C)OMP.		DATE	
1 SP1 @ 0-4 ft		C / I		# CONTAINERS		TIME	
2 SP1 @ 4.25 ft		C / I		GROUNDWATER		0918	
3 SP2 @ 0-4 ft		C / I		WASTEWATER		0926	
4 SP2 @ 4.25 ft		C / I		SOIL		0933	
5 SP3 @ 0-4 ft		C / I		OIL		0934	
6 SP3 @ 4.25 ft		C / I		SLUDGE		0942	
7 SP4 @ 0-4 ft		C / I		OTHER :		0947	
8 SP4 @ 4.25 ft		C / I		ACID/BASE:		0952	
9 BG @ 0-4 ft		C / I		ICE / COOL		0953	
10 BG @ 4.25 ft		C / I		OTHER :		1020	
				DATE		1021	

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Relinquished By: **Martin Pope** Date: **10-14-20** Received By: **Jeanne Delaney**

Relinquished By: **Martin Pope** Date: **10-14-20** Received By: **Jeanne Delaney**

Turnaround Time: **12:30** Standard Bacteria (only) Sample Condition Corrected Temp. °C

Thermometer ID # **113** Cool Intact Yes No

Correction Factor **10/12/20** Bacteria (only) Sample Condition Corrected Temp. °C

REMARKS: **RT Hicks consult.com, kristin@...**

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



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

October 26, 2020

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: RINGER FED #2 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/21/20 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/21/2020	Sampling Date:	10/14/2020
Reported:	10/26/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 1 @ 4.5' (H002798-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	10/24/2020	ND	2.15	107	2.00	0.260		
Toluene*	2.92	0.200	10/24/2020	ND	2.07	104	2.00	0.197	GC-NC1	
Ethylbenzene*	<0.200	0.200	10/24/2020	ND	2.02	101	2.00	0.601		
Total Xylenes*	26.3	0.600	10/24/2020	ND	5.78	96.3	6.00	0.316	GC-NC1	
Total BTEX	29.2	1.20	10/24/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 200 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	10/23/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1250	10.0	10/23/2020	ND	217	108	200	1.10		
DRO >C10-C28*	3340	10.0	10/23/2020	ND	210	105	200	0.261		
EXT DRO >C28-C36	<10.0	10.0	10/23/2020	ND						

Surrogate: 1-Chlorooctane 145 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/21/2020	Sampling Date:	10/14/2020
Reported:	10/26/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 2 @ 4.5' (H002798-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/24/2020	ND	2.15	107	2.00	0.260	
Toluene*	0.590	0.200	10/24/2020	ND	2.07	104	2.00	0.197	GC-NC1
Ethylbenzene*	<0.200	0.200	10/24/2020	ND	2.02	101	2.00	0.601	
Total Xylenes*	10.8	0.600	10/24/2020	ND	5.78	96.3	6.00	0.316	GC-NC1
Total BTEX	11.4	1.20	10/24/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 146 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	10/23/2020	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*	401	10.0	10/23/2020	ND	217	108	200	1.10	
DRO >C10-C28*	1430	10.0	10/23/2020	ND	210	105	200	0.261	
EXT DRO >C28-C36	<10.0	10.0	10/23/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/21/2020	Sampling Date:	10/14/2020
Reported:	10/26/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 3 @ 4.5' (H002798-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2020	ND	2.15	107	2.00	0.260	
Toluene*	<0.050	0.050	10/24/2020	ND	2.07	104	2.00	0.197	
Ethylbenzene*	<0.050	0.050	10/24/2020	ND	2.02	101	2.00	0.601	
Total Xylenes*	<0.150	0.150	10/24/2020	ND	5.78	96.3	6.00	0.316	
Total BTEX	<0.300	0.300	10/24/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	10/23/2020	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	10/23/2020	ND	217	108	200	1.10	
DRO >C10-C28*	<10.0	10.0	10/23/2020	ND	210	105	200	0.261	
EXT DRO >C28-C36	<10.0	10.0	10/23/2020	ND					

Surrogate: 1-Chlorooctane 76.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.7 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/21/2020	Sampling Date:	10/14/2020
Reported:	10/26/2020	Sampling Type:	Soil
Project Name:	RINGER FED #2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SP 4 @ 4.5' (H002798-04)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/24/2020	ND	2.15	107	2.00	0.260	
Toluene*	2.70	0.200	10/24/2020	ND	2.07	104	2.00	0.197	GC-NC1
Ethylbenzene*	<0.200	0.200	10/24/2020	ND	2.02	101	2.00	0.601	
Total Xylenes*	23.8	0.600	10/24/2020	ND	5.78	96.3	6.00	0.316	GC-NC1
Total BTEX	26.5	1.20	10/24/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 200 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	10/23/2020	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*	1100	10.0	10/23/2020	ND	217	108	200	1.10	
DRO >C10-C28*	3370	10.0	10/23/2020	ND	210	105	200	0.261	
EXT DRO >C28-C36	<10.0	10.0	10/23/2020	ND					

Surrogate: 1-Chlorooctane 134 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

added 10/22/20

Company Name: RT Hicks Consultants
 Project Manager: Kristin Pope
 Address: 901 Rio Grande Blvd NW, Suite F-142
 City: Albuquerque State: NM Zip: 87104
 Phone #: 505-466-5004 Fax #: _____
 Project #: _____ Project Owner: Murchison
 Project Name: Pinger Fed #2 Release
 Project Location: Eddy Co.
 Sampler Name: Kristin Pope
 FOR LAB USE ONLY

P.O. #: _____ Company: RT Hicks
 Attn: Randy Hicks
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				ICE / COOL
<u>H003798</u>	<u>1 SP 1 @ 4.5 ft</u>	<u>G</u>	<u>1</u>	<input checked="" type="checkbox"/>	<u>10-14-20</u>	<u>0928</u>	<u>Chloride</u>							
	<u>2 SP 2 @ 4.5 ft</u>	<u>G</u>	<u>1</u>	<input checked="" type="checkbox"/>	<u>10-14-20</u>	<u>0935</u>	<u>8015M TPH (GRO/DRO/MRO)</u>							
	<u>3 SP 3 @ 4.5 ft</u>	<u>G</u>	<u>1</u>	<input checked="" type="checkbox"/>	<u>10-14-20</u>	<u>0948</u>	<u>BTEX</u>							
	<u>4 SP 4 @ 4.5 ft</u>	<u>G</u>	<u>1</u>	<input checked="" type="checkbox"/>	<u>10-14-20</u>	<u>0954</u>	<u>HOLD - removed 10/22/20</u>							

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclude remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Reinquinshed By: _____ Date: 10-21-20 Received By: _____
 Time: 1100 Received By: Jayana Clabdy
 Date: _____
 Time: _____

Delivered By: (Circle One) Observed Temp. °C 5.9 Sample Condition: Cool Intact
 Corrected Temp. °C _____
 Sampler - UPS - Bus - Other: _____
 Checked By: _____ (Initials)
 Turnaround Time: _____ Standard Bacteria (only)
 Thermometer ID: #113 Cool Intact
 Correction Factor: 10/21/20 Yes No No No

REMARKS: RT Hicks consult.com, kristin@...

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalausnm.com



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

June 13, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: RINGER FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 06/07/24 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: HZ 1 - SURF (H243274-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06	
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774	
Total BTEX	<0.300	0.300	06/11/2024	ND					

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

Chloride, SM4500Cl-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	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 66.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: HZ 1 - 1' (H243274-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06	
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774	
Total BTEX	<0.300	0.300	06/11/2024	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	<16.0	16.0	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 63.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: HZ 2 - SURF (H243274-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06	
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774	
Total BTEX	<0.300	0.300	06/11/2024	ND					

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

Chloride, SM4500Cl-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	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 67.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: HZ 2 - 1' (H243274-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

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

Chloride, SM4500Cl-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	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: HZ 3 - SURF (H243274-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

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

Chloride, SM4500Cl-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	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: HZ 3 - 1' (H243274-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: HZ 4 - SURF (H243274-07)

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	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: HZ 4 - 1' (H243274-08)

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	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SP 1 - SURF (H243274-09)

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	06/11/2024	ND	1.97	98.5	2.00	1.06	
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774	
Total BTEX	<0.300	0.300	06/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	3960	16.0	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	5560	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	75.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SP 2 - SURF (H243274-11)

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	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	912	16.0	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41		
DRO >C10-C28*	215	10.0	06/11/2024	ND	217	109	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SP 2 - 10' (H243274-12)

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	06/11/2024	ND	1.97	98.5	2.00	1.06	
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774	
Total BTEX	<0.300	0.300	06/11/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SP 3 - SURF (H243274-13)

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	06/11/2024	ND	1.97	98.5	2.00	1.06	
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774	
Total BTEX	<0.300	0.300	06/11/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/11/2024	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	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	90.7	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 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:	06/07/2024	Sampling Date:	06/05/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SP 3 - 1' (H243274-14)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02	GC-NC	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450	GC-NC	
Total Xylenes*	5.59	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774	GC-NC1	
Total BTEX	5.59	0.300	06/11/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 635 % 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	400	16.0	06/11/2024	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*	394	10.0	06/11/2024	ND	195	97.7	200	2.41		
DRO >C10-C28*	568	10.0	06/11/2024	ND	217	109	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC
 Project Manager: Daniel Dominguez
 Address: 4024 Plains Hwy
 City: Lovington State: NM Zip: 88260
 Phone #: 575 393-3386 Fax #: [blank]
 Project #: [blank] Project Owner: Murchison Oil & Gas
 Project Name: Ringer Federal #2
 Project Location: U/L G Sec 4 T25S - R26E
 Sampler Name: Jerry Heidelberg
 P.O. #: [blank] Company: Murchison Oil & Gas
 Attn: Greg Boans
 Address: 5325 Sierra Vista
 City: Carlsbad State: NM Zip: 88230
 Phone #: 575 706-0667 Fax #: [blank]

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX 8021
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H243274	9	SP1 - Surf	G 1	X							6/5/24		X		X
	10	SP1-4'	G 1	X							6/5/24		X		X
	11	SP2-Surf	G 1	X							6/5/24		X		X
	12	SP2-10'	G 1	X							6/5/24		X		X
	13	SP3-Surf	G 1	X							6/5/24		X		X
	14	SP3-1'	G 1	X							6/5/24		X		X

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Relinquished By: [Signature] Date: 6-7-24 Time: 1525
 Received By: [Signature] Date: [blank] Time: [blank]

Delivered By: (Circle One) UPS - Bus - Other: 0, 9, 2 #140
 Sample Condition: Cool Intact
 Checked By: [Signature] Initials: [blank]

REMARKS: Email results to: pm@hungry-horse.com gboans@jdmll.com
 Phone Result: Yes No Add'l Phone #: [blank]
 Fax Result: Yes No Add'l Fax #: [blank]

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



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

June 14, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: RINGER FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 06/10/24 16:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:

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

Received:	06/10/2024	Sampling Date:	06/10/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SP 1 - 4' (H243316-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2024	ND	2.20	110	2.00	4.72		
Toluene*	<0.050	0.050	06/13/2024	ND	2.09	104	2.00	4.13		
Ethylbenzene*	<0.050	0.050	06/13/2024	ND	2.05	103	2.00	2.92		
Total Xylenes*	<0.150	0.150	06/13/2024	ND	6.01	100	6.00	2.72		
Total BTEX	<0.300	0.300	06/13/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/14/2024	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	06/12/2024	ND	199	99.3	200	6.74		
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	201	101	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND						

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

September 25, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: RINGER FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 09/24/24 12:18.

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:

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

Received:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 1 - 4' (H245791-01)

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	09/24/2024	ND	2.00	100	2.00	3.59	
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60	
Total BTEX	<0.300	0.300	09/24/2024	ND					

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

Chloride, SM4500Cl-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	09/25/2024	ND	384	96.0	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	09/24/2024	ND	236	118	200	0.0601	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 69.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.5 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 2 - 4' (H245791-02)

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	09/24/2024	ND	2.00	100	2.00	3.59		
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-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	09/25/2024	ND	384	96.0	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	09/24/2024	ND	236	118	200	0.0601		
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND						

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 3 - 10' (H245791-03)

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	09/24/2024	ND	2.00	100	2.00	3.59		
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60		
Total BTEX	<0.300	0.300	09/24/2024	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	32.0	16.0	09/25/2024	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	09/25/2024	ND	236	118	200	0.0601		
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	221	111	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND						

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 4 - 10' (H245791-04)

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	09/24/2024	ND	2.00	100	2.00	3.59	
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 5 - 10' (H245791-05)

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	09/24/2024	ND	2.00	100	2.00	3.59		
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601		
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND						

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 6 - 10' (H245791-06)

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	09/24/2024	ND	2.00	100	2.00	3.59		
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60		
Total BTEX	<0.300	0.300	09/24/2024	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	16.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601		
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND						

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 7 - 10' (H245791-07)

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	09/24/2024	ND	2.00	100	2.00	3.59	
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60	
Total BTEX	<0.300	0.300	09/24/2024	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	16.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 8 - 10' (H245791-08)

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	09/24/2024	ND	2.00	100	2.00	3.59	
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 9 - 10' (H245791-09)

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	09/24/2024	ND	2.00	100	2.00	3.59		
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601		
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND						

Surrogate: 1-Chlorooctane 72.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.6 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 10 - 10' (H245791-10)

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	09/24/2024	ND	2.00	100	2.00	3.59	
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60	
Total BTEX	<0.300	0.300	09/24/2024	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	16.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 11 - 4.5' (H245791-11)

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	09/24/2024	ND	2.00	100	2.00	3.59		
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/25/2024	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	09/25/2024	ND	236	118	200	0.0601		
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	221	111	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND						

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 12 - 4.5' (H245791-12)

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	09/24/2024	ND	2.00	100	2.00	3.59		
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601		
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND						

Surrogate: 1-Chlorooctane 83.7 % 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:

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

Received:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 1 (H245791-13)

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	09/24/2024	ND	2.00	100	2.00	3.59		
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60		
Total BTEX	<0.300	0.300	09/24/2024	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	16.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601		
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND						

Surrogate: 1-Chlorooctane 66.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.2 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 2 (H245791-14)

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	09/24/2024	ND	2.00	100	2.00	3.59	
Toluene*	<0.050	0.050	09/24/2024	ND	1.97	98.3	2.00	3.14	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.03	102	2.00	2.68	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.08	101	6.00	2.60	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 3 (H245791-15)

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	09/24/2024	ND	2.19	110	2.00	1.02		
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53	QR-03	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05	QR-03	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50	QM-07, QR-03	
Total BTEX	<0.300	0.300	09/24/2024	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	16.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601		
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND						

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 4 (H245791-16)

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	09/24/2024	ND	2.19	110	2.00	1.02	
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50	
Total BTEX	<0.300	0.300	09/24/2024	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	32.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 5 (H245791-17)

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	09/24/2024	ND	2.19	110	2.00	1.02	
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	16.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 6 (H245791-18)

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	09/24/2024	ND	2.19	110	2.00	1.02	
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 7 (H245791-19)

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	09/24/2024	ND	2.19	110	2.00	1.02		
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50		
Total BTEX	<0.300	0.300	09/24/2024	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	<16.0	16.0	09/25/2024	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	09/24/2024	ND	236	118	200	0.0601		
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	221	111	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND						

Surrogate: 1-Chlorooctane 65.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.3 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 8 (H245791-20)

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	09/24/2024	ND	2.19	110	2.00	1.02	
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	<16.0	16.0	09/25/2024	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	09/25/2024	ND	236	118	200	0.0601	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	221	111	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.0 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 9 (H245791-21)

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	09/24/2024	ND	2.19	110	2.00	1.02	
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/25/2024	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	09/24/2024	ND	229	115	200	3.54	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	226	113	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 10 (H245791-22)

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	09/24/2024	ND	2.19	110	2.00	1.02	
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	<16.0	16.0	09/25/2024	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	09/24/2024	ND	229	115	200	3.54	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	226	113	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 11 (H245791-23)

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	09/24/2024	ND	2.19	110	2.00	1.02	
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50	
Total BTEX	<0.300	0.300	09/24/2024	ND					

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

Chloride, SM4500Cl-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	09/25/2024	ND	432	108	400	16.0	

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	09/24/2024	ND	229	115	200	3.54	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	226	113	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 12 (H245791-24)

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	09/24/2024	ND	2.19	110	2.00	1.02	
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50	
Total BTEX	<0.300	0.300	09/24/2024	ND					

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

Chloride, SM4500Cl-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	09/25/2024	ND	432	108	400	16.0	

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	09/24/2024	ND	229	115	200	3.54	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	226	113	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 13 (H245791-25)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/25/2024	ND	2.19	110	2.00	1.02	
Toluene*	1.15	0.200	09/25/2024	ND	2.16	108	2.00	5.53	GC-NC1
Ethylbenzene*	1.86	0.200	09/25/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	49.2	0.600	09/25/2024	ND	6.73	112	6.00	8.50	
Total BTEX	52.2	1.20	09/25/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 170 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	09/25/2024	ND	432	108	400	16.0	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1300	10.0	09/24/2024	ND	229	115	200	3.54	
DRO >C10-C28*	2740	10.0	09/24/2024	ND	226	113	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 266 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 14 (H245791-26)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	09/25/2024	ND	2.19	110	2.00	1.02		
Toluene*	0.829	0.100	09/25/2024	ND	2.16	108	2.00	5.53	GC-NC1	
Ethylbenzene*	1.35	0.100	09/25/2024	ND	2.25	112	2.00	8.05		
Total Xylenes*	36.3	0.300	09/25/2024	ND	6.73	112	6.00	8.50		
Total BTEX	38.5	0.600	09/25/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 194 % 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	1440	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	867	10.0	09/24/2024	ND	229	115	200	3.54		
DRO >C10-C28*	2080	10.0	09/24/2024	ND	226	113	200	4.69		
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND						

Surrogate: 1-Chlorooctane 224 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 15 (H245791-27)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	1.02	
Toluene*	0.380	0.050	09/25/2024	ND	2.16	108	2.00	5.53	GC-NC1
Ethylbenzene*	0.714	0.050	09/25/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	23.1	0.150	09/25/2024	ND	6.73	112	6.00	8.50	
Total BTEX	24.2	0.300	09/25/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 219 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	09/25/2024	ND	432	108	400	16.0	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	388	10.0	09/24/2024	ND	229	115	200	3.54	
DRO >C10-C28*	1340	10.0	09/24/2024	ND	226	113	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 157 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 16 (H245791-28)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/25/2024	ND	2.19	110	2.00	1.02	
Toluene*	1.71	0.200	09/25/2024	ND	2.16	108	2.00	5.53	GC-NC1
Ethylbenzene*	2.46	0.200	09/25/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	57.0	0.600	09/25/2024	ND	6.73	112	6.00	8.50	
Total BTEX	61.2	1.20	09/25/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 173 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	09/25/2024	ND	432	108	400	16.0	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1140	10.0	09/24/2024	ND	229	115	200	3.54	
DRO >C10-C28*	2780	10.0	09/24/2024	ND	226	113	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 234 % 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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: CALICHE (H245791-29)

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	09/24/2024	ND	2.19	110	2.00	1.02	
Toluene*	<0.050	0.050	09/24/2024	ND	2.16	108	2.00	5.53	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	112	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.73	112	6.00	8.50	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	09/25/2024	ND	432	108	400	16.0	

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	09/24/2024	ND	229	115	200	3.54	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	226	113	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis...
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 (signature)

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #: Murchison Oil & Gas	
Project Manager: Daniel Dominguez		Company: Murchison Oil & Gas	
Address: 4024 Plains Hwy		Attn: Greg Boans	
City: Lovington	State: NM	Address: 5325 Sierra Vista	
Phone #: 575 393-3386	Fax #: 88260	City: Carlsbad	State: NM
Project #: _____	Project Owner: Murchison Oil & Gas	State: NM	Zip: 88230
Project Name: Ringer Federal #2	Project Location: U/L G Sec 4 T35S - R26E	Phone #: 575 706-0667	Fax #: _____
Sampler Name: Jerry Heidelberg	FOR LAB USE ONLY		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH	BTEX 8021
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H245791	1	FL1-4'	C 1	X						9/24/24	8:02	X	X	X
	2	FL2-4'	C 1	X						9/24/24	8:04	X	X	X
	3	FL3-10'	C 1	X						9/24/24	8:06	X	X	X
	4	FL4-10'	C 1	X						9/24/24	8:08	X	X	X
	5	FL5-10'	C 1	X						9/24/24	8:10	X	X	X
	6	FL6-10'	C 1	X						9/24/24	8:12	X	X	X
	7	FL7-10'	C 1	X						9/24/24	8:14	X	X	X
	8	FL8-10'	C 1	X						9/24/24	8:16	X	X	X
	9	FL9-10'	C 1	X						9/24/24	8:18	X	X	X
	10	FL10-10'	C 1	X						9/24/24	8:20	X	X	X

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Relinquished By: <i>[Signature]</i>	Date: 9-24-24	Received By: <i>[Signature]</i>
Time: 12:18		

Delivered By: (Circle One) CF-O&G #140	Sample Condition	CHECKED BY: <i>[Signature]</i>
Sampler - UPS - Bus - Other: 5.7c/5.1c	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)
	Yes <input type="checkbox"/> No <input type="checkbox"/>	

REMARKS: *PM the Rush*

Email results to: pm@hungry-horse.com

gboans@jdmii.com

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



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 #2

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 with a large, flowing "C" and "K".

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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 1 - 14' (H246692-01)

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	1.98	99.2	2.00	10.9		
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20		
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07		
Total Xylenes*	0.307	0.150	11/04/2024	ND	6.48	108	6.00	6.88	GC-NC1	
Total BTEX	0.307	0.300	11/04/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	1340	16.0	11/04/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	16.1	10.0	11/04/2024	ND	197	98.3	200	1.72		
DRO >C10-C28*	376	10.0	11/04/2024	ND	199	99.3	200	3.00		
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND						

Surrogate: 1-Chlorooctane 68.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.7 % 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:

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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 2 - 14' (H246692-02)

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	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	1.03	0.150	11/04/2024	ND	6.48	108	6.00	6.88	GC-NC1
Total BTEX	1.03	0.300	11/04/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	1840	16.0	11/04/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.7	10.0	11/04/2024	ND	197	98.3	200	1.72	
DRO >C10-C28*	954	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	52.7	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 3 - 14' (H246692-03)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2024	ND	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	1.47	0.150	11/04/2024	ND	6.48	108	6.00	6.88	GC-NC1
Total BTEX	1.47	0.300	11/04/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 140 % 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	784	16.0	11/04/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	93.2	10.0	11/04/2024	ND	197	98.3	200	1.72	
DRO >C10-C28*	652	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 4 - 14' (H246692-04)

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	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.48	108	6.00	6.88	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	2440	16.0	11/04/2024	ND	432	108	400	0.00	QM-07

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	197	98.3	200	1.72	
DRO >C10-C28*	173	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 5 - 14' (H246692-05)

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	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.48	108	6.00	6.88	
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: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	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	197	98.3	200	1.72	
DRO >C10-C28*	19.4	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 6 - 14' (H246692-06)

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	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	0.635	0.150	11/04/2024	ND	6.48	108	6.00	6.88	GC-NC1
Total BTEX	0.635	0.300	11/04/2024	ND					GC-NC1

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	3600	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*	15.3	10.0	11/04/2024	ND	197	98.3	200	1.72	
DRO >C10-C28*	132	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	22.1	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 7 - 14' (H246692-07)

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	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	0.486	0.150	11/04/2024	ND	6.48	108	6.00	6.88	GC-NC1
Total BTEX	0.486	0.300	11/04/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	1200	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*	17.5	10.0	11/04/2024	ND	197	98.3	200	1.72	
DRO >C10-C28*	301	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 8 - 14' (H246692-08)

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	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.48	108	6.00	6.88	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1600	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*	11.3	10.0	11/04/2024	ND	197	98.3	200	1.72	
DRO >C10-C28*	144	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 1 0-14' (H246692-09)

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	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.48	108	6.00	6.88	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	96.0	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 2 0-14' (H246692-10)

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	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.48	108	6.00	6.88	
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: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 3 0-14' (H246692-11)

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	11/04/2024	ND	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.48	108	6.00	6.88	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	96.0	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.5 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 4 0-14' (H246692-12)

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	11/04/2024	ND	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.48	108	6.00	6.88	
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: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.8 % 49.1-148

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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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 5 0-14' (H246692-13)

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	11/04/2024	ND	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.48	108	6.00	6.88	
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: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 73.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 49.1-148

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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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 6 0-14' (H246692-14)

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	11/04/2024	ND	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.48	108	6.00	6.88	
Total BTEX	<0.300	0.300	11/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	96.0	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 69.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.5 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 7 0-14' (H246692-15)

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	11/04/2024	ND	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/04/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/04/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/04/2024	ND	6.48	108	6.00	6.88	
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: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 8 0-14' (H246692-16)

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	1.98	99.2	2.00	10.9	
Toluene*	<0.050	0.050	11/05/2024	ND	2.07	104	2.00	9.20	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.03	102	2.00	8.07	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.48	108	6.00	6.88	
Total BTEX	<0.300	0.300	11/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	128	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.0 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 9 0-14' (H246692-17)

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	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) 99.2 % 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	96.0	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 68.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 10 0-14' (H246692-18)

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	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	112	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 11 0-14' (H246692-19)

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	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) 98.6 % 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	96.0	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	197	98.3	200	1.72		
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00		
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND						

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 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:

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 #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 12 0-14' (H246692-20)

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	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, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	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	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	199	99.3	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC Project Manager: Daniel Dominguez Address: 4024 Plains Hwy City: Lovington State: NM Zip: 88260 Phone #: 575 393-3386 Fax #: Project #: Project Name: Ringer Federal #2 Project Location: U/L G Sec 4 T25S - R26E Sampler Name: Roy Bell		P.O. #: Company: Runner Resources Operating Attn: Brad Grandstaff Address: 5325 Sierra Vista City: Carlsbad State: NM Zip: 88230 Phone #: 972-977-9221 Fax #:	
FOR LAB USE ONLY Lab I.D.: HBU0092 Sample I.D.:		Matrix: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: Preserv.: <input type="checkbox"/> ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER:	
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Relinquished By: [Signature] Relinquished Date: 11/24/24 Time: 1:34		Received By: [Signature] Received Date: 11/24/24 Time: 8:37	
Delivered By: (Circle One) UPS <input checked="" type="checkbox"/> Bus <input type="checkbox"/> Other <input type="checkbox"/> 1.3: UPS #0140 0.7: #140		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
Checked By: [Signature] (Initials)		REMARKS: Email results to: pm@hungry-horse.com bgrandstaff@3rperating.com 48 hr RUSH	

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC Project Manager: Daniel Dominguez		BILL TO		ANALYSIS REQUEST							
Address: 4024 Plains Hwy City: Lovington State: NM Zip: 88260		Company: Runner Resources Operating Attn: Brad Grandstaff									
Phone #: 575 393-3386 Fax #: Project #:		Address: 5325 Sierra Vista City: Carlsbad									
Project Name: Ringer Federal #2 Project Location: U/L G Sec 4 T25S - R26E		State: NM Zip: 88230 Phone #: 972-977-9221									
Sampler Name: Roy Bell		Fax #:									
FOR LAB USE ONLY											
Lab I.D. H44492		(G)RAB OR (C)OMP.									
		# CONTAINERS									
		GROUNDWATER									
		WASTEWATER									
		SOIL									
		OIL									
		SLUDGE									
		OTHER :									
		ACID/BASE:									
		ICE / COOL									
		OTHER :									
		DATE		TIME							
11	SW3 0-14'	C	1	11/1/24	8:40	X	X	X			
12	SW4 0-14'	C	1	11/1/24	8:42	X	X	X			
13	SW5 0-14'	C	1	11/1/24	8:45	X	X	X			
14	SW6 0-14'	C	1	11/1/24	8:50	X	X	X			
15	SW7 0-14'	C	1	11/1/24	8:53	X	X	X			
16	SW8 0-14'	C	1	11/1/24	8:55	X	X	X			
17	SW9 0-14'	C	1	11/1/24	9:01	X	X	X			
18	SW10 0-14'	C	1	11/1/24	9:05	X	X	X			
19	SW11 0-14'	C	1	11/1/24	9:08	X	X	X			
20	SW12 0-14'	C	1	11/1/24	9:10	X	X	X			

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Relinquished By: [Signature] Date: 11/24
Received By: [Signature] Date: 11/24

Relinquished By: [Signature] Date: 11/24
Received By: [Signature] Date: 11/24

Delivered By: (Circle One) UPS - Bus - Other: 1:30 PM 11/24

Sample Condition: Cool Intact
 Yes No

CHECKED BY: [Signature]

REMARKS: 48 hr RUSH
 Email results to: pm@hungry-horse.com
 bggrandstaff@3operating.com

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



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

January 14, 2025

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: RINGER FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 01/10/25 15:23.

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:

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

Received:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 1B 16' (H250123-01)

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	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/13/2025	ND	448	112	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	01/13/2025	ND	178	88.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 2B 16' (H250123-02)

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	01/13/2025	ND	1.63	81.3	2.00	1.83		
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524		
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395		
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137		
Total BTEX	<0.300	0.300	01/13/2025	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	112	16.0	01/13/2025	ND	448	112	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	01/13/2025	ND	178	88.8	200	3.15		
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83		
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND						

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 3B 16' (H250123-03)

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	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/13/2025	ND	448	112	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	01/14/2025	ND	178	88.8	200	3.15	
DRO >C10-C28*	145	10.0	01/14/2025	ND	173	86.3	200	5.83	
EXT DRO >C28-C36	215	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 4B 16' (H250123-04)

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	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	112	16.0	01/13/2025	ND	448	112	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	01/13/2025	ND	178	88.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83	
EXT DRO >C28-C36	15.6	10.0	01/13/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 5B 16' (H250123-05)

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	01/13/2025	ND	1.63	81.3	2.00	1.83		
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524		
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395		
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137		
Total BTEX	<0.300	0.300	01/13/2025	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	144	16.0	01/13/2025	ND	448	112	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	01/13/2025	ND	178	88.8	200	3.15		
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83		
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND						

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 6B 16' (H250123-06)

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	01/13/2025	ND	1.63	81.3	2.00	1.83		
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524		
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395		
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137		
Total BTEX	<0.300	0.300	01/13/2025	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	96.0	16.0	01/13/2025	ND	448	112	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	01/13/2025	ND	178	88.8	200	3.15		
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83		
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND						

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 7B 25' (H250123-07)

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	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	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	64.0	16.0	01/13/2025	ND	448	112	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	01/13/2025	ND	178	88.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 8B 25' (H250123-08)

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	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	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	80.0	16.0	01/13/2025	ND	448	112	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	01/13/2025	ND	178	88.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 13 14-16' (H250123-09)

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	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	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	112	16.0	01/13/2025	ND	448	112	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	01/13/2025	ND	178	88.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 14 14-16' (H250123-10)

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	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	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	128	16.0	01/13/2025	ND	448	112	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	01/13/2025	ND	178	88.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND					

Surrogate: 1-Chlorooctane 100 % 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:

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

Received:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 15 14-16' (H250123-11)

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	01/13/2025	ND	1.63	81.3	2.00	1.83		
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524		
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395		
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137		
Total BTEX	<0.300	0.300	01/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/13/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/13/2025	ND	178	88.8	200	3.15		
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83		
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND						

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.2 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 16 14-16' (H250123-12)

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	01/13/2025	ND	1.63	81.3	2.00	1.83		
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524		
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395		
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137		
Total BTEX	<0.300	0.300	01/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/13/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/13/2025	ND	178	88.8	200	3.15		
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83		
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 17 16-25' (H250123-13)

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	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/13/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2025	ND	178	88.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 18 16-25' (H250123-14)

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	01/13/2025	ND	1.63	81.3	2.00	1.83		
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524		
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395		
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137		
Total BTEX	<0.300	0.300	01/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/13/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/13/2025	ND	178	88.8	200	3.15		
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83		
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 19 16-25' (H250123-15)

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	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/13/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2025	ND	178	88.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 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:	01/10/2025	Sampling Date:	01/10/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: SW 20 16-25' (H250123-16)

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	01/14/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/14/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/13/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2025	ND	178	88.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/13/2025	ND	173	86.3	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	01/13/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/2

Company Name: Hungry Horse LLC
 Project Manager: Daniel Dominguez
 Address: 4024 Plains Hwy
 City: Lovington State: NM Zip: 88260
 Phone #: 575 393-3386 Fax #:
 Project #:
 Project Name: Ringer Federal #2
 Project Location: U/L G Sec 4 T25S - R28E
 Sampler Name: Hector Luna
 P.O. #:
 Company: Runner Resources Operating
 Attn: Brad Grandstaff
 Address: 5325 Sierra Vista
 City: Carlsbad State: NM Zip: 88230
 Phone #: 972-977-9221 Fax #:
 BILL TO ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX 8021
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
AS01023		16'	C	1	X							1/10/25	830	X	X	X
	FL1b	16'	C	1	X							1/10/25	835	X	X	X
	FL2b	16'	C	1	X							1/10/25	840	X	X	X
	FL3b	16'	C	1	X							1/10/25	845	X	X	X
	FL4b	16'	C	1	X							1/10/25	850	X	X	X
	FL5b	16'	C	1	X							1/10/25	855	X	X	X
	FL6b	16'	C	1	X							1/10/25	900	X	X	X
	FL7b	25'	C	1	X							1/10/25	905	X	X	X
	FL8b	25'	C	1	X							1/10/25	905	X	X	X

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Relinquished By: *[Signature]* Date: 1-10-25
 Received By: *[Signature]* Date: 1-23-25
 Relinquished By: *[Signature]* Date:
 Received By: *[Signature]* Date:
 Delivered By: (Circle One) -1-3-25
 Sampler - UPS - Bus - Other: -1-9-25 #140
 Sample Condition: Cool Intact
 Checked By: *[Signature]*

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: 48 hr RUSH
 Email results to: pmt@hungry-horse.com
 bgrandstaff@3roperating.com

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Hungry Horse LLC
 Project Manager: Daniel Dominguez
 Address: 4024 Plains Hwy
 City: Lovington State: NM Zip: 88260
 Phone #: 575 393-3386 Fax #:
 Project #:
 Project Name: Ringer Federal #2
 Project Location: UL/ G Sec 4 T2SS - R26E
 Sampler Name: Hector Luna
 P.O. #:
 Company: Runner Resources Operating
 Attn: Brad Grandstaff
 Address: 5325 Sierra Vista
 City: Carlsbad
 State: NM Zip: 88230
 Phone #: 972-977-9221 Fax #:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH	BTEX 8021
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
11050133	9	14-16'	C	1	X						1/10/25	910	X	X	X
	11	14-16'	C	1	X						1/10/25	915	X	X	X
	12	14-16'	C	1	X						1/10/25	920	X	X	X
	13	14-16'	C	1	X						1/10/25	925	X	X	X
	14	16-25'	C	1	X						1/10/25	930	X	X	X
	15	16-25'	C	1	X						1/10/25	935	X	X	X
	10	16-25'	C	1	X						1/10/25	940	X	X	X
											1/10/25	945	X	X	X

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Relinquished By: *John D. ...*
 Date: 1/23/25
 Received By: *Steele Riquelme*
 Date:
 Time:
 Sample Condition: Cool Intact
 Yes No

Delivered By: (Circle One) UPS Bus Other:
 -1.3°C - 0.0°C
 -1.9°C #140
 CHECKED BY: *[Signature]*

REMARKS:
 Email results to: pm@hungry-horse.com
 bgrandstaff@3roperating.com
 48 hr RUSH
 Add'l Phone #:
 Add'l Fax #:
 Phone Result: Yes No
 Fax Result: Yes No

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



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

January 21, 2025

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: RINGER FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 01/20/25 8:00.

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:

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

Received:	01/20/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	RINGER FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	RIDGE RUNNER RESOURCES	Sample Received By:	Shari Cisneros
Project Location:	UL/G SEC 4 T25S - R26E		

Sample ID: FL 3 C (H250312-01)

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	01/20/2025	ND	1.69	84.4	2.00	0.270		
Toluene*	<0.050	0.050	01/20/2025	ND	1.82	91.2	2.00	0.388		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	1.79	89.6	2.00	0.371		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	5.24	87.4	6.00	0.120		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-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	01/20/2025	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	01/20/2025	ND	221	111	200	2.56		
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	224	112	200	0.708		
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 427391

QUESTIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 427391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2027443562
Incident Name	NRM2027443562 RINGER FEDERAL #2 @ 30-015-22308
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-22308] RINGER FEDERAL COM #002

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	RINGER FEDERAL #2
Date Release Discovered	09/29/2020
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Production Tank Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Cause: Corrosion Production Tank Condensate Released: 100 BBL Recovered: 0 BBL Lost: 100 BBL.
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)	Not answered.

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QUESTIONS, Page 2

Action 427391

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 427391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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.

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.

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	Not answered.

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: 07/08/2024
--	---

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QUESTIONS, Page 3

Action 427391

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 427391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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)	3960
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	22070
GRO+DRO (EPA SW-846 Method 8015M)	22070
BTEX (EPA SW-846 Method 8021B or 8260B)	1050
Benzene (EPA SW-846 Method 8021B or 8260B)	4.9

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	07/22/2024
On what date will (or did) the final sampling or liner inspection occur	08/12/2024
On what date will (or was) the remediation complete(d)	08/19/2024
What is the estimated surface area (in square feet) that will be reclaimed	1500
What is the estimated volume (in cubic yards) that will be reclaimed	500
What is the estimated surface area (in square feet) that will be remediated	1500
What is the estimated volume (in cubic yards) that will be remediated	500

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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State of New Mexico
Energy, Minerals and Natural Resources
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QUESTIONS, Page 4

Action 427391

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 427391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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: 07/08/2024
--	---

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 427391

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 427391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 427391

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 427391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	420629
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1600
What was the total volume (cubic yards) remediated	1900
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Remediation activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD ap-proved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

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

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

I hereby agree and sign off to the above statement	Name: Bradley Wells Title: Enviro Manager Email: bwells@hungry-horse.com Date: 02/03/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 7

Action 427391

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 427391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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Phone: (505) 476-3441

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CONDITIONS

Action 427391

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 427391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved.	2/3/2025
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	2/3/2025
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	2/3/2025
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	2/3/2025
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeded activities, inspections, and final pictures when revegetation is achieved.	2/3/2025
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	2/3/2025