

Not able to determine volume of oil in stained caliche.



McNabb Partners, LLC  
Hobbs • Carlsbad • Midland  
575.397.0050  
www.mcnabbpartnersllc.com

October 3, 2024

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

RE: Site Characterization and Remediation Work Plan Proposal  
Incident ID: nAPP2415825281  
Mineral Lease ID: L0-0896-0002  
Ogden State #005A  
Unit/Township/Range/Section: UL O, Sec. 2, T25S, R26E  
Lat/Long: 32.1539841, -104.2605743  
Project ID: 20160312-murchison-ogdenState5A

NMOCD:

McNabb Partners LLC (McNabb) submits this Site Characterization and Remediation Work Plan on behalf of Murchison Oil and Gas, LLC (Murchison). This document describes site characterization, initial assessment and planned remedial activities on the Ogden State #005A well pad.

## 1 Site Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to the table and text below for additional setback criteria and verification (Plates 1-9).

### 1.1 Site Map

Plate 1 is a site map showing overview of the well pad, the supposed source of the release and the lined containment that was inspected.

### 1.2 Depth to Ground Water

According to USGS and NM OSE data bases, there are no known wells within a 1/2-mile radius of the Site. On 8/23/2023, a sampling bore hole SB-1 was installed approximately 900 feet west of the area of concern. A bore hole was drilled down to 106 feet below ground surface (ft bgs) with no groundwater encountered at any point.

The boring is identified on Plate 2, The boring log is located in Appendix B.

### 1.3 Wellhead Protection Area

Plate 3 shows that the area of concern is:



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- Not within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Not within ½-mile of any documented water sources (wells and springs).
- Not within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Not within 1000 feet of any other freshwater well or spring.

#### **1.4 Distance to Nearest Significant Water Course**

Plate 4 shows that the area of concern is:

- Within ½-mile of an intermittent stream (riverine).
- Not within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Not within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).



Site Characterization	
What is the shallowest depth to groundwater (ft bgs) <b>Plate 2</b>	>106 ft bgs
What measure was used to determine this?	Borehole
Did this release impact ground or surface water?	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
<ul style="list-style-type: none"> <li>A continuously flowing watercourse or any other significant watercourse. <b>Plate 4</b></li> </ul>	1,600 ft N – intermittent stream
<ul style="list-style-type: none"> <li>Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark). <b>Plate 4</b></li> </ul>	7,000 ft NW
<ul style="list-style-type: none"> <li>An occupied permanent residence, school, hospital, institution or church. <b>Plate 5</b></li> </ul>	>1 mi
<ul style="list-style-type: none"> <li>A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes. <b>Plate 3</b></li> </ul>	>1 mi
<ul style="list-style-type: none"> <li>Any other fresh water well or spring. <b>Plate 3</b></li> </ul>	>1 mi
<ul style="list-style-type: none"> <li>Incorporated municipal boundaries or a defined municipal fresh water well field. <b>Plate 3</b></li> </ul>	>1 mi
<ul style="list-style-type: none"> <li>A wetland. <b>Plate 6</b></li> </ul>	7,000 ft NW
<ul style="list-style-type: none"> <li>A subsurface mine. <b>Plate 7</b></li> </ul>	>5 mi
<ul style="list-style-type: none"> <li>A (non-karst) unstable area.</li> </ul>	>5 mi
<ul style="list-style-type: none"> <li>Categorize the risk of this well/site being in a karst geology. <b>Plate 8</b></li> </ul>	High Karst
<ul style="list-style-type: none"> <li>A 100-year floodplain. <b>Plate 9</b></li> </ul>	6,600 ft NW

## 1.5 Soil/Waste Characteristics

The USDA Natural Resources Conservation Service (NRCS) soil survey<sup>1</sup> describes near surface lithology as

The entire production site and lease access road consist of Reeves-Gypsum land complex.

- Reeves-Gypsum land complex, (100% of area)
  - Slope: 0 to 3 percent
  - Typical profile
    - ✓ H1 - 0 to 8 inches: *loam*
    - ✓ H2 - 8 to 32 inches: *clay loam*

<sup>1</sup> <https://websoilurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>



✓ H3 - 32 to 60 inches: *gypsiferous material*

Closure Criteria as listed in Table 1 of 19.15.29 NMAC, where Karst potential is high is defined as:

- Chloride – 600 mg/kg
- TPH – 100 mg/kg
- BTEX – 50 mg/kg
- Benzene – 10 mg/kg

An initial sampling event to assess the Area of Interest at Ogden State #004 and Ogden State #005A was conducted by Hungry Horse on 06/25/2024. McNabb Partners conducted another sampling event on 08/14/2024 in conjunction with area of concern at Ogden State #004 well pad (addressed under Incident ID: nAPP2424335058). Samples collected at the Ogden State 4 site are excluded from the Table A and their locations are shown in Plate 11 for the NMOCD reference. All samples collected were analyzed by a certified laboratory for TPH, chloride and BTEX concentrations.

Analytical data shows that multiple soil samples (SP 1 - SURF (H243836-01), SP 2 - SURF (H243836-02), SP 3 - SURF (H243836-03), CS-01 (0.5') (H244986-16), CS-02 (0.5') (H244986-19), CS-03 (0.5') (H244986-22), H-2 (0.5') (H244989-04), H-3 (0.5') (H244989-07), H-4 (0.5') (H244989-10)) exhibit elevated chloride and/or TPH concentrations at depths ranging from ground surface to 0.5 ft bgs. Sample point H-1 exhibits elevated chloride concentrations at depths from 0.5 to 4 ft bgs (Sample IDs: H-1 (0.5') (H244989-01), H-1 (2') (H244989-02), H-1 (4') (H244989-03)).

After conducting liner inspection on July 9, 2024, several holes were identified in the lined tank battery containment. On August 23, 2024, McNabb Partners have collected 6 characterization samples (i.e., CS-01 through CS-06) from each hole in the liner. The liner around the hole were cut into 5 ft by 5 ft squares and discrete samples were collected due to visual impacts on the surface. Terminal depth samples from every hole were collected with a geotechnical hand auger until the hard tool refusal. Sample points CS-01 through CS-04 were fully delineated (refer to Sample IDs: CS-01 (1') (H245183-02), CS-01 (1.5') (H245183-03), CS-02 (0.5') (H245183-04), CS-02 (2') (H245183-05), CS-03 (0.5') (H245183-06), CS-03 (1') (H245183-07), CS-03 (1.5') (H245183-08), CS-04 (0.5') (H245183-09), CS-04 (1') (H245183-10)) to constituent concentrations below Table I, 19.15.29.12 NMAC. As result of the tool refusal and inability to access these samples points with geotechnical drilling rig due to the multiple pipelines, sample points CS-05 and CS-06 (represented by sample IDs: CS-05 (0.5') (H245183-11), CS-05 (2') (H245183-12), CS-06 (0.5') (H245183-13), CS-06 (1') (H245183-14)) cannot be fully delineated at the time of liner inspection. Prior to the closure/deferral report submission to NMOCD, the delineation for sample points CS-05 and CS-06 will be completed along with the excavation activities. Impacted areas CS-05 and CS-06 under the liner will be accessed horizontally with geotechnical hand auger extended up to 16 ft from the eastern and western side walls of the excavation at the depth of 2 ft bgs or below if necessary.



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On September 19, 2024, McNabb Partners returned to the site to complete delineation of the impacted surfaces around the lined containment. Several sample points (i.e., H-1.1, H-2.1, H-2.2, H-5 through H-6) were installed at depths ranging from 0.5 to 4 ft bgs next to sample points with elevated chloride concentrations (i.e., H-1 through H-4). Sample point H-1 was further characterized at depths from 6 to 10 ft bgs.

Sample points H-1.1, H-2.2 and H-5 through H-8 (represented by sample IDs: H-1.1 (0.5') (H245735-09), H-1.1 (2') (H245735-10), H-1.1 (4') (H245735-11), H-2.2 (0.5') (H245735-06), H-2.2 (2') (H245735-07), H-2.2 (4') (H245735-08), H-5 (0.5') (H245735-12), H-5 (2') (H245735-13), H-5 (4') (H245735-14), H-6 (0.5') (H245735-15), H-6 (2') (H245735-16), H-6 (4') (H245735-17), H-7 (0.5') (H245735-18), H-7 (2') (H245735-19), H-7 (4') (H245735-20), H-8 (0.5') (H245735-21), H-8 (2') (H245735-22), H-8 (4') (H245735-23)) meet NMOCD Closure Criteria from Table I at all depths from 0.5 to 4 ft bgs. Elevated chloride and/or TPH concentrations were present in sample point H-2.1 (Sample ID: H-2.1 (0.5') (H245735-04) at depth of 0.5 ft bgs and H-1 at depths of 6 and 10 ft bgs (Sample IDs: H-1 (6') (H245735-01) & H-1 (10') (H245735-03)).

- Plate 10 shows the location of characterization/delineation sample points and proposed excavation depths for the release remediation.
- Plate 11 shows the location of excluded sample points at Ogden State 4 Well Pad.
- Table A shows a summary of analytical, listed by their corresponding Sample IDs.
- Sampling notifications are included in Appendix A.
- Certificates of analysis are located in Appendix C.



## 2 Remediation Workplan

Remediation Plan	
Requesting a remediation plan approval with this submission?	Yes
Have the lateral and vertical extents of the contamination been fully delineated ( <i>attach report demonstrating lateral and vertical extents</i> )?	Yes
Was this release entirely contained within a lined containment area?	No
Soil Contamination Sampling (Highest observable value for each in mg/kg)	
• Chloride	16,000
• TPH (DRO+GRO+MRO)	2,142.6
• GRO+DRO	1,746.6
• BTEX	1.55
• Benzene	0.05
On what estimated date will the remediation commence	10/26/2024
On what date will (or did) the final sampling or liner inspection occur	11/26/2024
On what date will (or was) the remediation completed	12/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	7,385
What is the estimated volume (in cubic yards) that will be reclaimed	580
What is the estimated surface area (in square ft) that will be remediated	7,385
What is the estimated volume (in cubic yards) that will be remediated	580
The remediation will (or is expected to) utilize the following processes to remediate/reduce contaminants:	
• Excavation and off-site disposal	Yes
• Excavation and on-site disposal	
• Soil Vapor Extraction (in Situ)	
• Chemical processing (in Situ)	
• Biological processing (in Situ)	
• Physical processing (in Situ)	
• Groundwater abatement	
• Other (non-listed remedial process)	
• Other non-listed remedial process. Please specify	

After reviewing the analytical data of the samples collected, McNabb Partners and Murchison Oil & Gas propose excavating areas represented by sample IDs: SP 1 - SURF (H243836-01), SP 2 - SURF (H243836-02), SP 3 - SURF (H243836-03), CS-01 (0.5') (H244986-16), CS-02 (0.5') (H244986-19), CS-03 (0.5') (H244986-22), H-2 (0.5') (H244989-04), H-3 (0.5') (H244989-07), H-4 (0.5') (H244989-10) to a depth of one (1) ft bgs. The area represented by sample IDs: H-1 (10') (H245735-03) will be excavated to 10 ft bgs or until chloride, TPH and BTEX concentrations meet the NMOCD Closure Criteria for the site.



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Once the excavation to depths listed above is complete, base and side wall confirmation samples will be collected using a five (5) point composite method, representing an area not larger than 200 square feet. If any discoloration is noted, discrete grab soil samples will be collected from such areas. All confirmation samples will be sent to a certified laboratory for testing of BTEX, TPH and chloride concentrations. If any of the confirmation samples indicate concentrations that exceed the regulatory limits in Table I (NMAC 19.15.23.12), the areas represented by those samples will be further excavated until the concentrations are below the NMOCD Closure Criteria.

Approximately 7,385 sq ft of impacted soils will be remediated. A total of approximately 580 cubic yards (cu yd) of impacted soil will be excavated and disposed of an NMOCD approved facility.

All backfill material will be sampled for BTEX, TPH, and Chloride from a 5-point composite sample to meet NMOCD most stringent Closure Criteria.

Remediation activities will commence within 45 days of workplan approval and be completed with final sampling within 90 days of workplan approval.

Please contact me with any questions at (917) 497-6890.

Sincerely,

Dimitry Nikanorov  
Environmental Manager  
McNabb Partners



Copy: New Mexico State Land Office  
Murchison Oil and Gas



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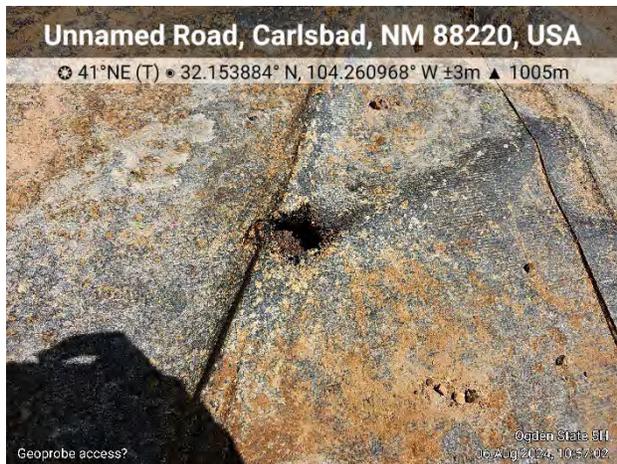


Figure 1. Example of the hole in a liner.

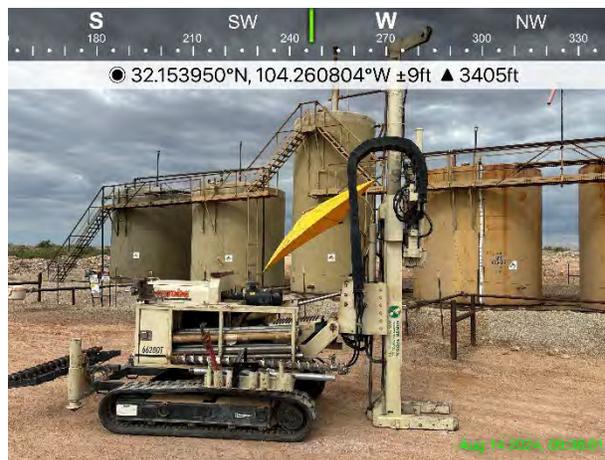


Figure 2. Sampling activities.



Figure 3. Sampling activities.



Figure 4. Sampling activities.



Figure 5. Sampling activities.



Figure 6. Sampling activities.



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Figure 7. Liner sampling (CS-05).



Figure 8. Liner sampling (CS-04).



Figure 9. Liner sampling (CS-01).

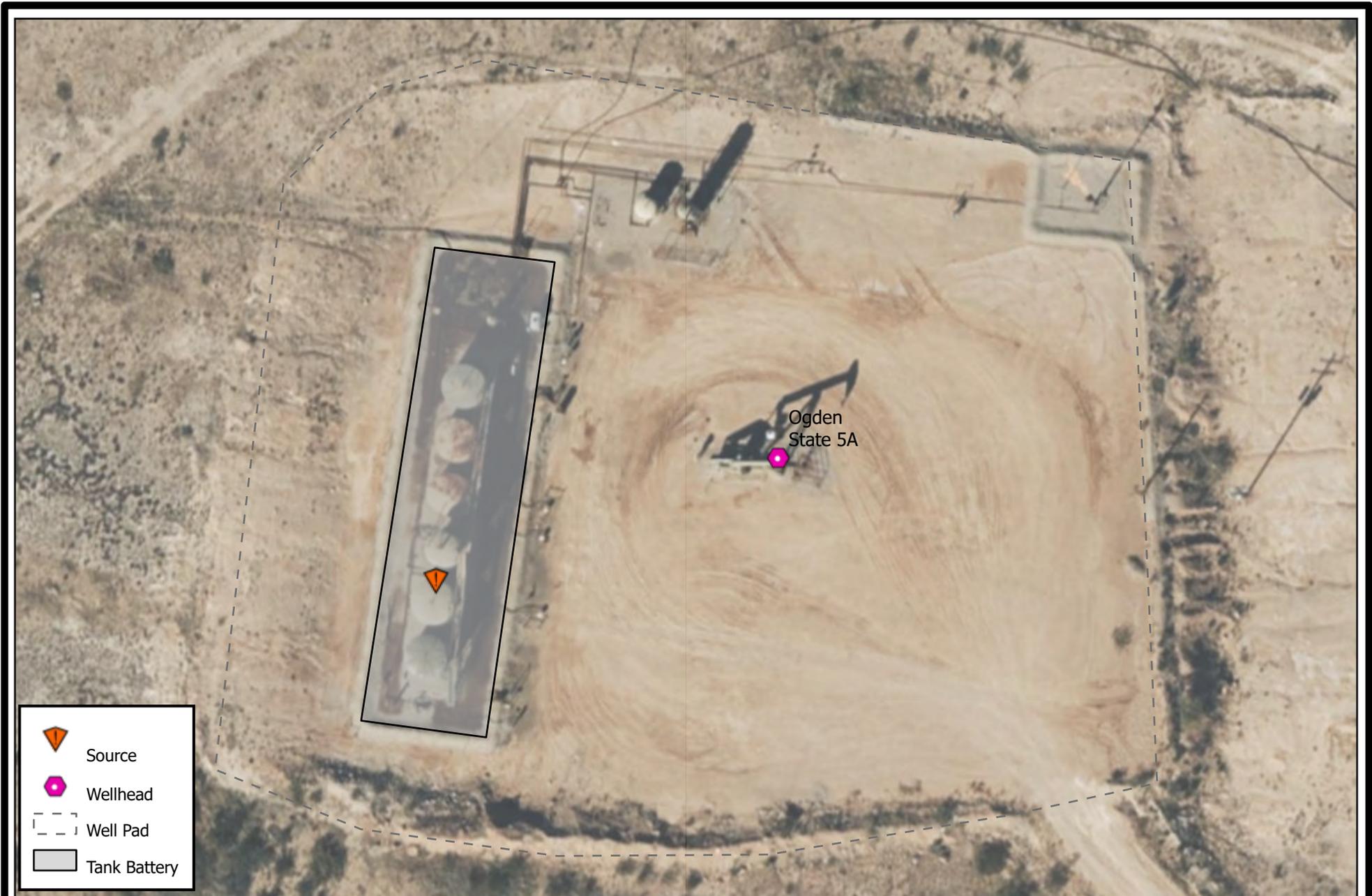


Figure 10. Area of Concern (H-1).

# Plates

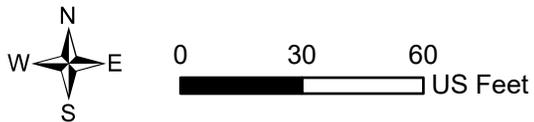


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-  Source
-  Wellhead
-  Well Pad
-  Tank Battery

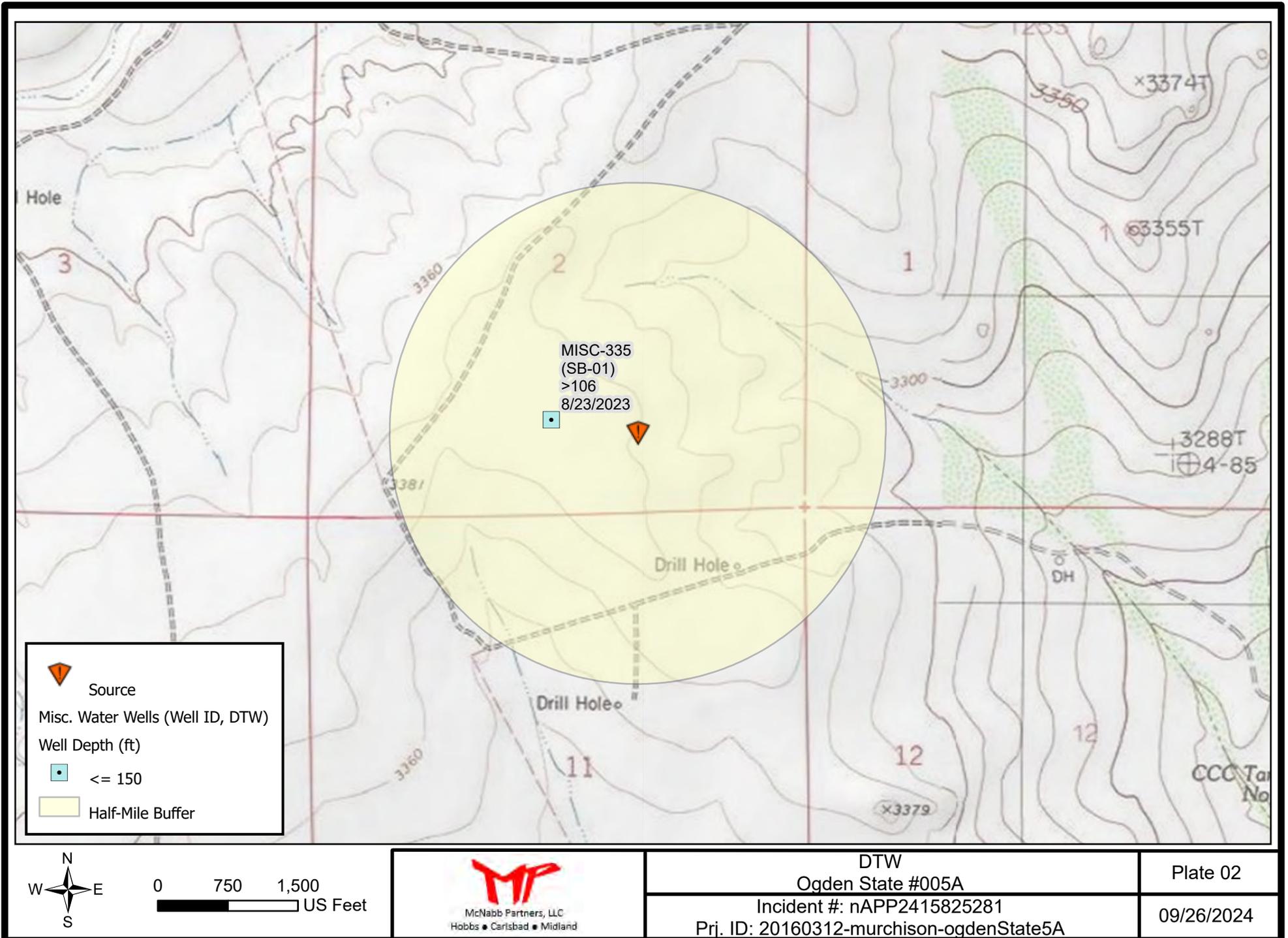
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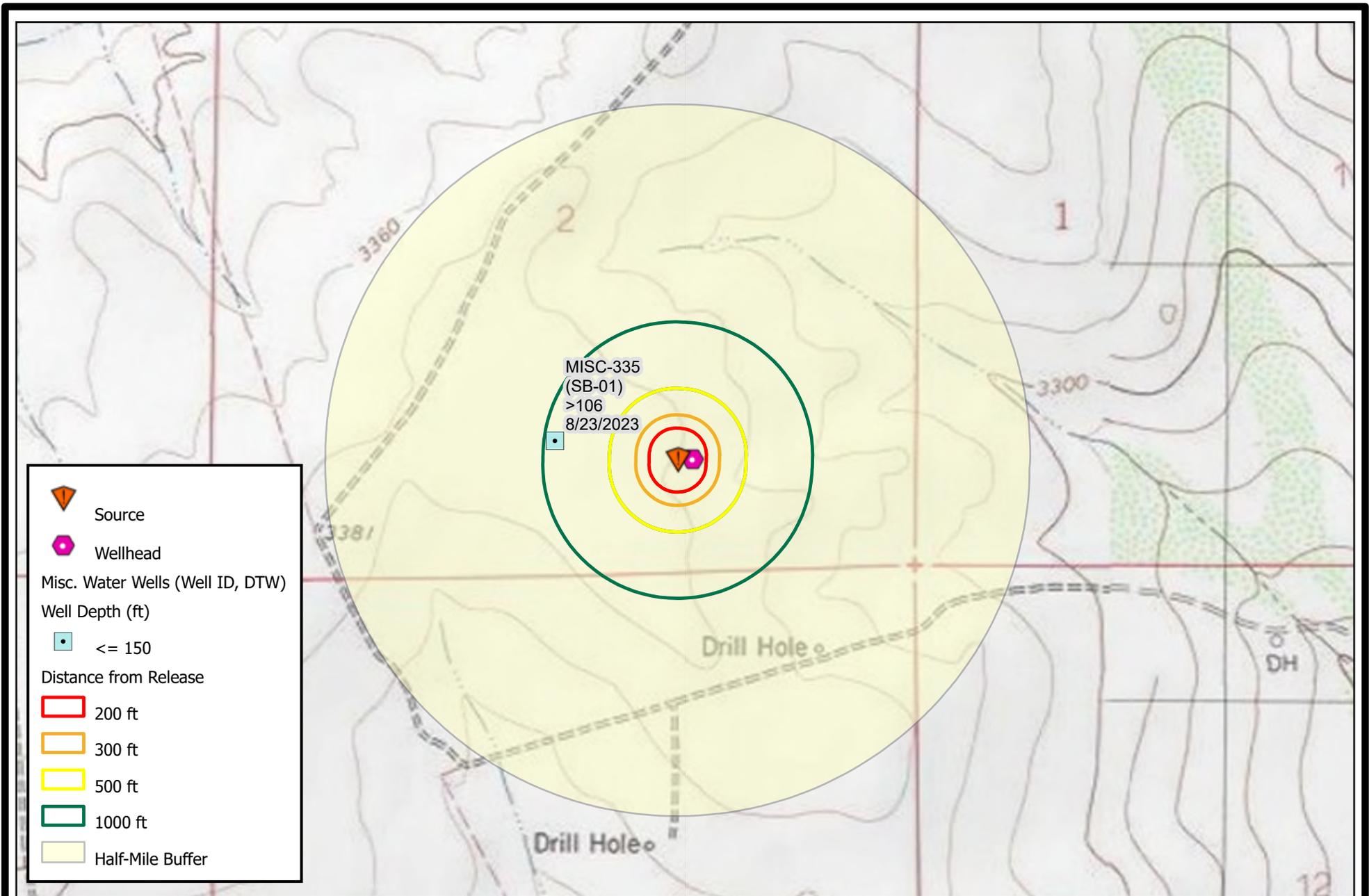


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Site Map Ogden State #5A
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Plate 01
09/26/2024





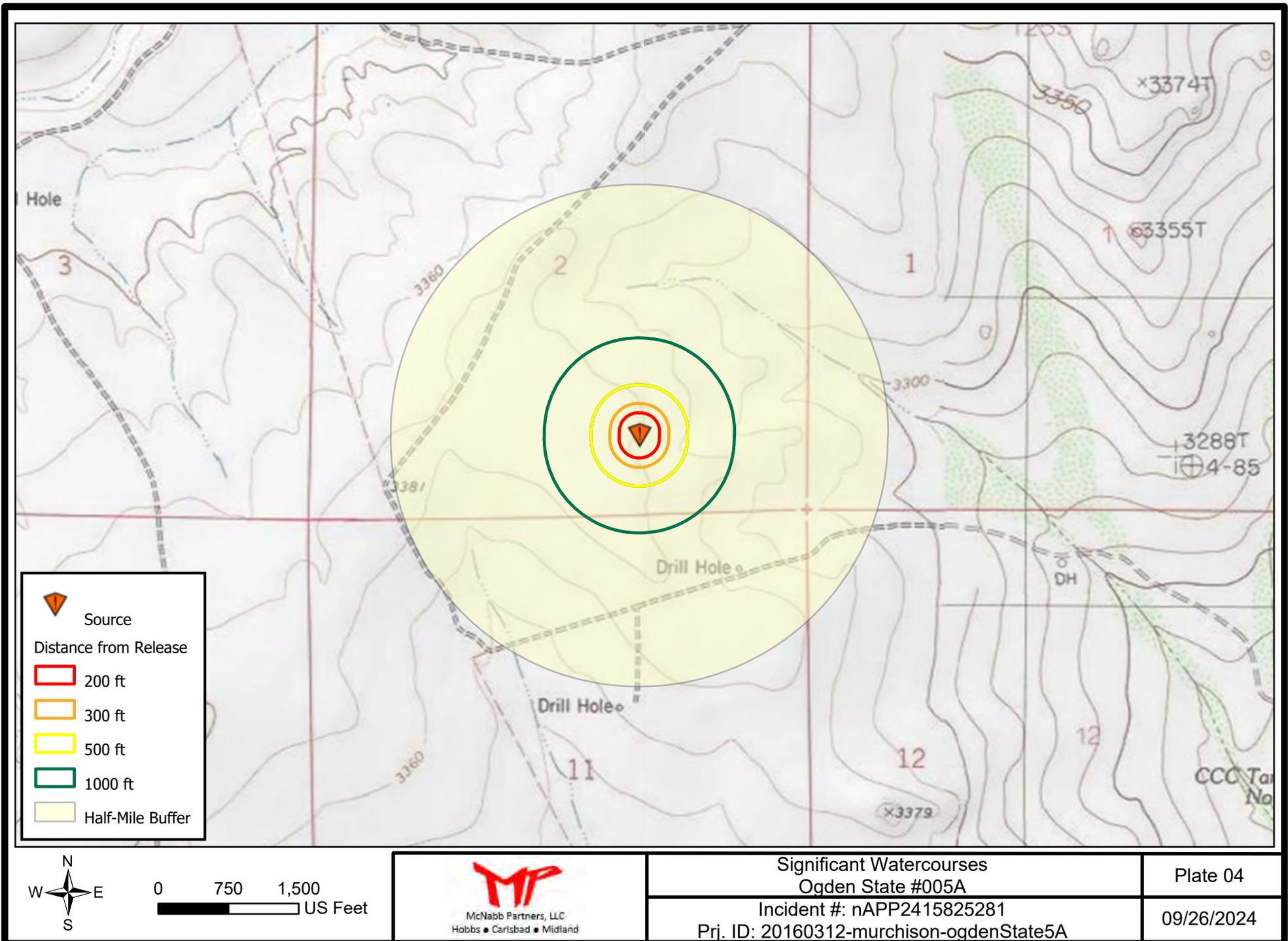
-  Source
-  Wellhead
- Misc. Water Wells (Well ID, DTW)
- Well Depth (ft)
-  <= 150
- Distance from Release
-  200 ft
-  300 ft
-  500 ft
-  1000 ft
-  Half-Mile Buffer

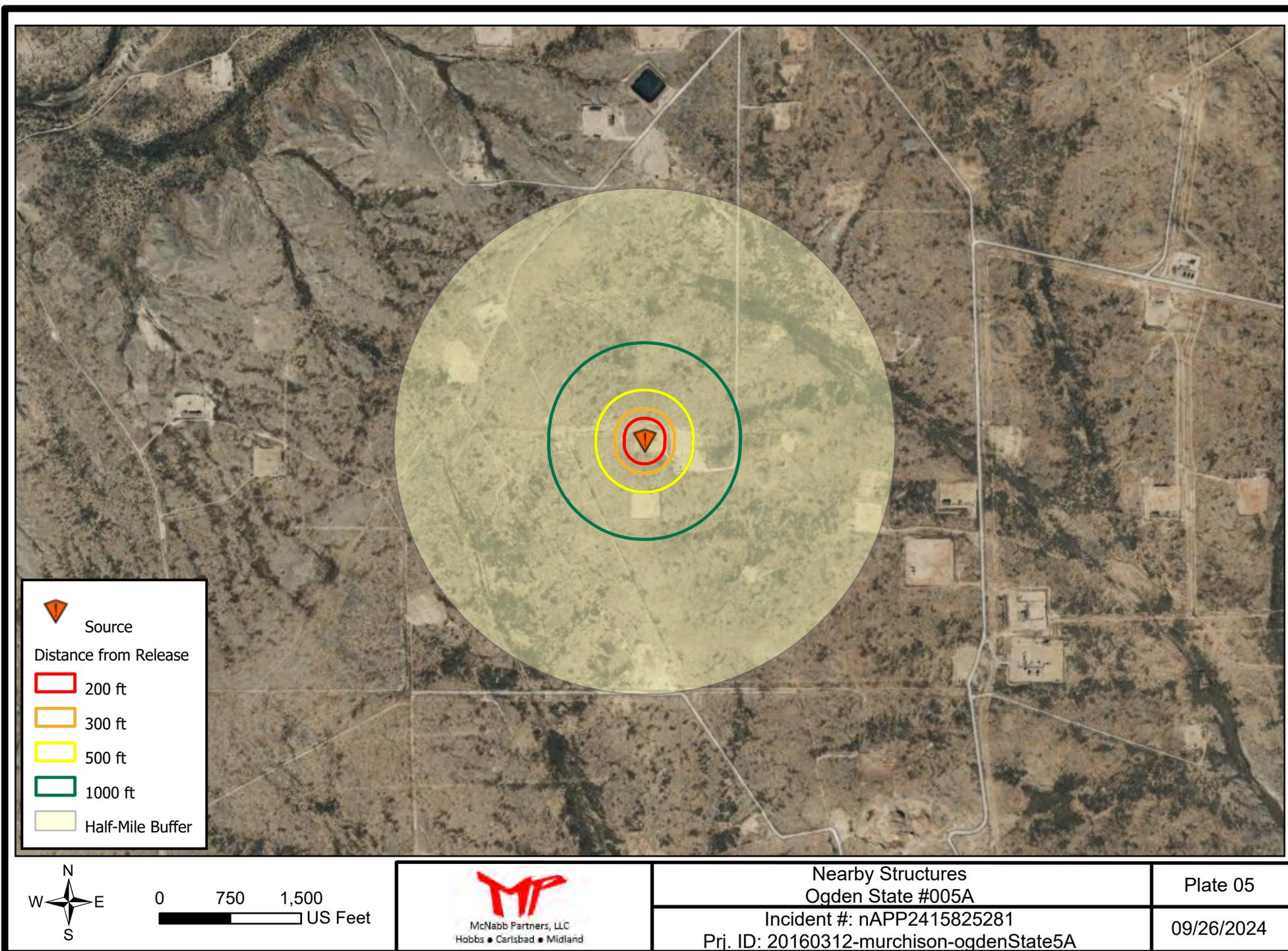


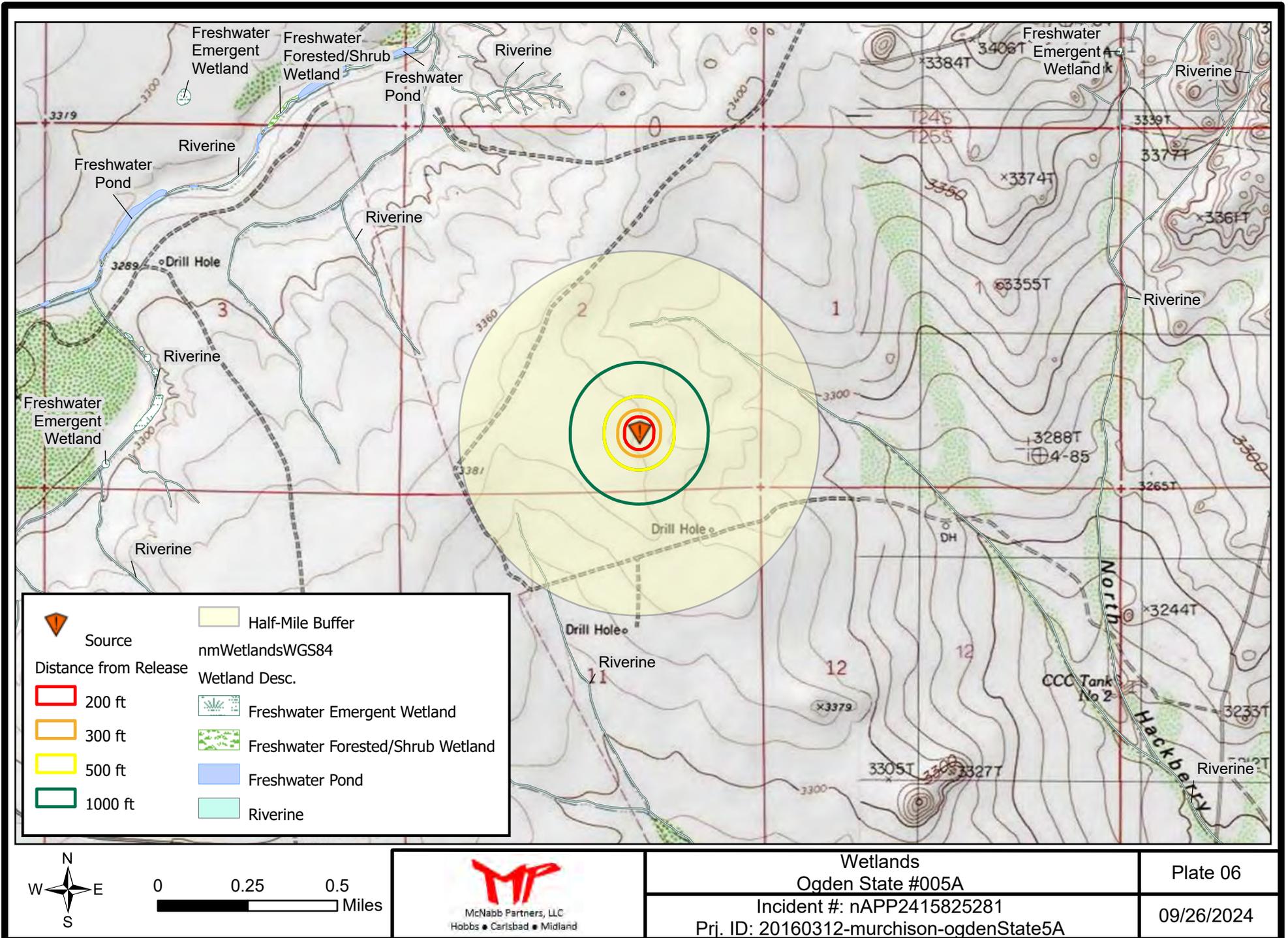

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Wellhead Protection Ogden State #005A
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Plate 03
09/26/2024

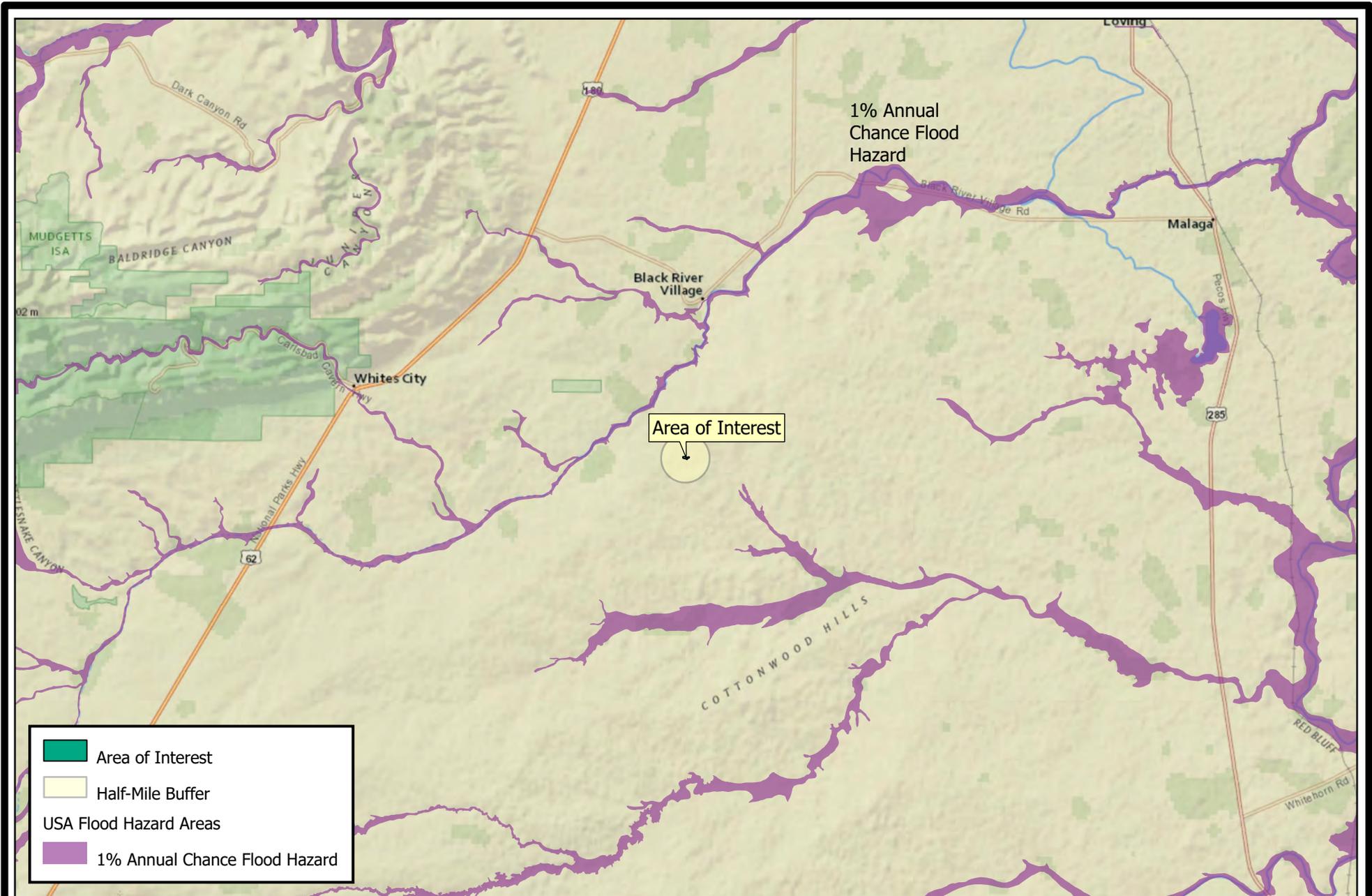




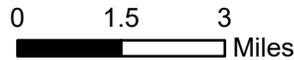








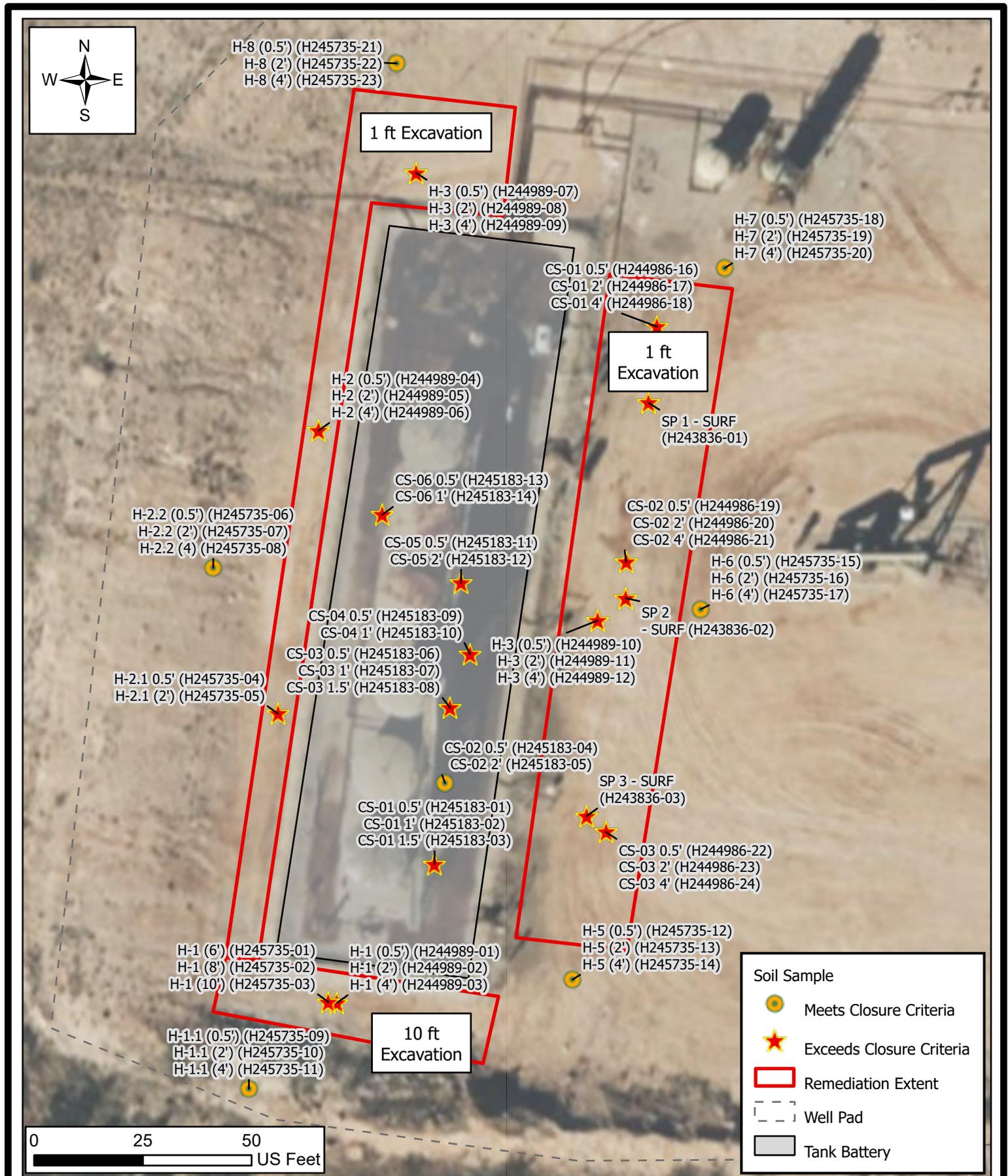
	Area of Interest
	Half-Mile Buffer
USA Flood Hazard Areas	
	1% Annual Chance Flood Hazard



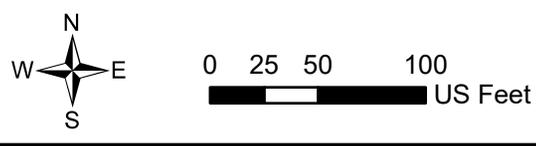
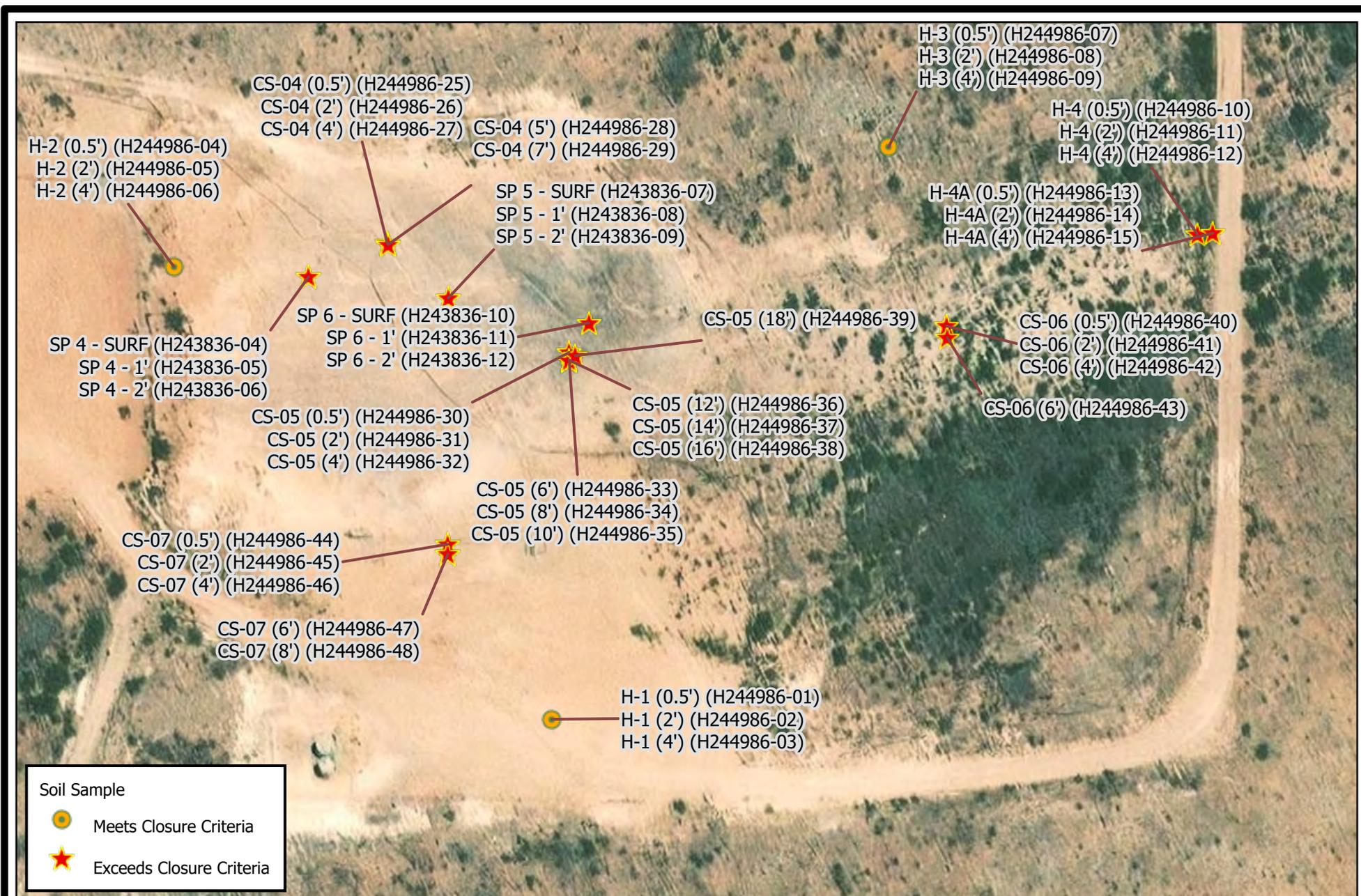

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FEMA Ogden State #005A
Incident #: nAPP2415825281
Prj. ID: 20160312-murchison-ogdenState5A

Plate 09
09/26/2024



 McNabb Partners, LLC Hobbs • Carlsbad • Midland	<b>Proposed Remediation Map</b> <b>Ogden State #005A</b>		<b>Plate 10</b>
	Incident #: nAPP2415825281 Prj. ID: 20160312-murchison-ogdenState5A		10/02/2024



Excluded sample points (at Ogden State #004 Site) Ogden State #005A
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Plate 11
10/02/2024

# Tables



Table A. Analytical Summary  
Ogden State 5A

Date	Sample ID	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
	NMOCD Closure Criteria	600	--	--	--	--	100	10	50
Samples within lined tank battery containment									
8/23/2024	CS-01 (0.5') (H245183-01)	528	96.6	1650	1746.6	396	2142.6	<0.050	1.41
8/23/2024	CS-01 (1') (H245183-02)	256	<10.0	49.7	49.7	12.4	62.1	<0.050	<0.300
8/23/2024	CS-01 (1.5') (H245183-03)	256	<10.0	27.9	27.9	<10.0	27.9	<0.050	<0.300
8/23/2024	CS-02 (0.5') (H245183-04)	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/23/2024	CS-02 (2') (H245183-05)	528	<10.0	10	<20.0	<10.0	10	<0.050	<0.300
8/23/2024	CS-03 (0.5') (H245183-06)	896	<10.0	54.3	54.3	19.4	73.7	<0.050	<0.300
8/23/2024	CS-03 (1') (H245183-07)	672	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/23/2024	CS-03 (1.5') (H245183-08)	480	<10.0	13.8	13.8	<10.0	13.8	<0.050	<0.300
8/23/2024	CS-04 (0.5') (H245183-09)	352	12.1	444	456.1	121	577.1	<0.050	<0.300
8/23/2024	CS-04 (1') (H245183-10)	240	<10.0	67.9	67.9	<10.0	67.9	<0.050	<0.300
8/23/2024	CS-05 (0.5') (H245183-11)	1070	21.9	1150	1171.3	279	1450.3	<0.050	0.289
8/23/2024	CS-05 (2') (H245183-12)	688	<10.0	42.5	42.5	<10.0	42.5	<0.050	<0.300
8/23/2024	CS-06 (0.5') (H245183-13)	288	27.5	377	404.5	89	493.5	<0.050	1.55
8/23/2024	CS-06 (1') (H245183-14)	128	46.4	977	1023.4	295	1318.4	<0.050	1.03
Samples outside of the lined containment									
6/25/2024	SP 1 - SURF (H243836-01)	6260	<10.0	<10.0	<20.0	40.1	40.1	<0.050	<0.300
6/25/2024	SP 2 - SURF (H243836-02)	16000	<10.0	108	108	62.7	170.7	<0.050	<0.300
6/25/2024	SP 3 - SURF (H243836-03)	9200	<10.0	1060	1060	583	1643	<0.050	<0.300
8/14/2024	CS-01 (0.5') (H244986-16)	8800	<10.0	1890	1890	636	2526	<0.050	<0.300
8/14/2024	CS-01 (2') (H244986-17)	384	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-01 (4') (H244986-18)	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-02 (0.5') (H244986-19)	2200	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-02 (2') (H244986-20)	256	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-02 (4') (H244986-21)	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-03 (0.5') (H244986-22)	1150	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-03 (2') (H244986-23)	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-03 (4') (H244986-24)	96	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-1 (0.5') (H244989-01)	2080	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-1 (2') (H244989-02)	848	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-1 (4') (H244989-03)	1150	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300

Table A. Analytical Summary  
Ogden State 5A

Date	Sample ID	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
	NMOCD Closure Criteria	600	--	--	--	--	100	10	50
9/19/2024	H-1 (6') (H245735-01)	1060	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-1 (8') (H245735-02)	560	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-1 (10') (H245735-03)	1060	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-1.1 (0.5') (H245735-09)	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-1.1 (2') (H245735-10)	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-1.1 (4') (H245735-11)	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-2 (0.5') (H244989-04)	656	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-2 (2') (H244989-05)	336	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-2 (4') (H244989-06)	208	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-2.1 (0.5') (H245735-04)	1960	<10.0	66.8	66.8	148	214.8	<0.050	<0.300
9/19/2024	H-2.1 (2') (H245735-05)	224	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-2.2 (0.5') (H245735-06)	512	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-2.2 (2') (H245735-07)	224	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-2.2 (4') (H245735-08)	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-3 (0.5') (H244989-07)	928	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-3 (2') (H244989-08)	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-3 (4') (H244989-09)	256	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-4 (0.5') (H244989-10)	1980	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-4 (2') (H244989-11)	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-4 (4') (H244989-12)	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-5 (0.5') (H245735-12)	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-5 (2') (H245735-13)	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-5 (4') (H245735-14)	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-6 (0.5') (H245735-15)	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-6 (2') (H245735-16)	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-6 (4') (H245735-17)	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-7 (0.5') (H245735-18)	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-7 (2') (H245735-19)	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-7 (4') (H245735-20)	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-8 (0.5') (H245735-21)	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-8 (2') (H245735-22)	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300

Table A. Analytical Summary  
Ogden State 5A

Date	Sample ID	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
	NMOCD Closure Criteria	600	--	--	--	--	100	10	50
9/19/2024	H-8 (4') (H245735-23)	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
	Sample exceeds NMOCD Closure Criteria								

# Appendix A

## Communications



McNabb Partners, LLC  
Hobbs • Carlsbad • Midland

**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 360545

**QUESTIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 360545
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2415825281
Incident Name	NAPP2415825281 OGDEN STATE #005A @ 30-015-37264
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37264] OGDEN STATE #005A

<b>Location of Release Source</b>	
Site Name	Ogden State #005A
Date Release Discovered	03/12/2016
Surface Owner	State

<b>Liner Inspection Event Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	4,800
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	07/09/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Zach Conder, 575-640-6786
Please provide any information necessary for navigation to liner inspection site	32.154244, -104.263972

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

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 Phone:(575) 748-1283 Fax:(575) 748-9720

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 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 360545

**CONDITIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 360545
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

**CONDITIONS**

Created By	Condition	Condition Date
ccottrell	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	7/2/2024

**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  
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 1220 S. St Francis Dr., Santa Fe, NM 87505  
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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**

QUESTIONS

Action 372132

**QUESTIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 372132
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2415825281
Incident Name	NAPP2415825281 OGDEN STATE #005A @ 30-015-37264
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37264] OGDEN STATE #005A

<b>Location of Release Source</b>	
Site Name	Ogden State #005A
Date Release Discovered	03/12/2016
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/14/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact <a href="mailto:andrew@mcnabbpartners.com">andrew@mcnabbpartners.com</a> if needed. (970) 570-9535
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.153854, -104.260968

**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 372132

**CONDITIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 372132
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**CONDITIONS**

Created By	Condition	Condition Date
aparkerm	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.	8/8/2024

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
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**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 375579

**QUESTIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 375579
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2415825281
Incident Name	NAPP2415825281 OGDEN STATE #005A @ 30-015-37264
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37264] OGDEN STATE #005A

<b>Location of Release Source</b>	
Site Name	Ogden State #005A
Date Release Discovered	03/12/2016
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	18
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/23/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Christopher Turner 575-441-0080
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.153854, -104.260968

**District I**  
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 Phone:(575) 393-6161 Fax:(575) 393-0720  
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 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 375579

**CONDITIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 375579
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**CONDITIONS**

Created By	Condition	Condition Date
aparkerm	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.	8/20/2024

**District I**  
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**District IV**  
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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**

QUESTIONS

Action 384253

**QUESTIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 384253
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2415825281
Incident Name	NAPP2415825281 OGDEN STATE #005A @ 30-015-37264
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37264] OGDEN STATE #005A

<b>Location of Release Source</b>	
Site Name	Ogden State #005A
Date Release Discovered	03/12/2016
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,400
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/19/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact dimitry@mcnabbpartners.com or at 917-497-6890
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.153983, -104.261142

**District I**  
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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 384253

**CONDITIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 384253
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**CONDITIONS**

Created By	Condition	Condition Date
aparkerm	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.	9/17/2024



**RE: [EXTERNAL] Extension Requests**

**From** Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>  
**Date** Fri 8/30/2024 9:17 AM  
**To** Cindy Cottrell <ccottrell@jdmii.com>  
**Cc** Greg Boans <gboans@jdmii.com>; Andrew Parker <Andrew@mcnabbpartners.com>; Dmitry Nikanorov <Dimitry@mcnabbpartners.com>; Rusty Cooper <rcooper@jdmii.com>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Moander, Chris, EMNRD <Chris.Moander@emnrd.nm.gov>

Cindy,

The 30-day extension requests are approved. Please see the table below for the new due dates, in red, for each incident. Please include a copy of this correspondence in each of the next submittals. Please be advised, pursuant to 19.15.29 NMAC, due dates are calculated from the date of discovery not from the submittal dates of the NOR or initial C-141.

Incident Number	API/Facility ID	Well/Facility	Due	Extension approval- new due date
nAPP2415754364	30-015-38060	Carbon Valley 25 Fed Com 7H	8/30/24	9/30/2024
nAPP2415757665	30-015-37683	Carbon Valley 26 Fed Com 1	8/30/24	9/30/2024
nAPP2415757870	30-015-37603	Carbon Valley 31 Fed Com 1	9/3/24	10/3/2024
nAPP2415825281	30-015-37264	Ogden State 5A	9/4/24	10/4/2024

Can you please give me an update on **NAPP2415825479** FROSTY FEDERAL COM #001(30-015-37003) and **NAPP2415757342** CARBON VALLEY 26 FEDERAL COM #002H (30-015-37684)? The NORs and initial C-141s for these 2 releases were submitted at the same time the incidents listed in the table above were submitted, but OCD has not received any addition C-141s for these incidents.

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](mailto: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, August 28, 2024 1:14 PM  
**To:** Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>  
**Cc:** Greg Boans <gboans@jdmii.com>; andrew@mcnabbpartners.com; Dmitry Nikanorov <Dimitry@mcnabbpartners.com>; Rusty Cooper <rcooper@jdmii.com>  
**Subject:** RE: [EXTERNAL] Extension Requests

Ok, that's what we were thinking. Thanks for confirming.

**From:** Hall, Brittany, EMNRD <[Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)>  
**Sent:** Wednesday, August 28, 2024 2:13 PM  
**To:** Cindy Cottrell <[ccottrell@jdmii.com](mailto:ccottrell@jdmii.com)>  
**Cc:** Greg Boans <[gboans@jdmii.com](mailto:gboans@jdmii.com)>; [andrew@mcnabbpartners.com](mailto:andrew@mcnabbpartners.com); Dmitry Nikanorov <[Dimitry@mcnabbpartners.com](mailto:Dimitry@mcnabbpartners.com)>; Rusty Cooper <[rcooper@jdmii.com](mailto:rcooper@jdmii.com)>  
**Subject:** RE: [EXTERNAL] Extension Requests

Cindy,

OCD is holding off on approving/denying these extensions until the meeting on Friday.

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](mailto: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](mailto:ccottrell@jdmii.com)>  
**Sent:** Monday, August 26, 2024 9:54 AM  
**To:** Hall, Brittany, EMNRD <[Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)>  
**Cc:** Greg Boans <[gboans@jdmii.com](mailto:gboans@jdmii.com)>; [andrew@mcnabbpartners.com](mailto:andrew@mcnabbpartners.com); Dmitry Nikanorov <[Dimitry@mcnabbpartners.com](mailto:Dimitry@mcnabbpartners.com)>; Rusty Cooper <[rcooper@jdmii.com](mailto:rcooper@jdmii.com)>  
**Subject:** [EXTERNAL] Extension Requests

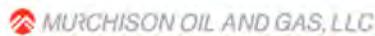
CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Brittany,

As you know we ran into issues sampling within the lined containments and have a meeting scheduled this Friday to discuss. We would like to request a 30-day extension for the incidents listed below in order to complete delineation sampling, obtain lab results and remediate.

Incident Number	API/Facility ID	Well/Facility	Due
nAPP2415754364	30-015-38060	Carbon Valley 25 Fed Com 7H	8/30/24
nAPP2415757665	30-015-37683	Carbon Valley 26 Fed Com 1	8/30/24
nAPP2415757870	30-015-37603	Carbon Valley 31 Fed Com 1	9/3/24
nAPP2415825281	30-015-37264	Ogden State 5A	9/4/24

Thank you for your consideration.



Cindy Cottrell  
 Regulatory Coordinator & Corporate Secretary  
 7250 Dallas Parkway, Suite 1400  
 Plano, TX 75024

Direct Line: 469-573-6413

# Appendix B

## Well Logs



McNabb Partners, LLC  
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# R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

## Memorandum

From: Kristin Pope

Date: September 11, 2023

**RE: Murchison-Ogden St. 5A release, Characterization Soil Boring**

Lat./long.: 32.15434, -104.26397

The subject site is located approximately 12 miles south of Carlsbad city limits, with a surface elevation of approximately 3,390 feet asl. On August 23, 2023, I met the client Greg Boans (Murchison), Dr. David Decker (Southwest Geophysical Consulting), and representatives of Ready Drill LLC on site to install an investigative soil boring nearest the release origin. To maintain a safe distance from active, underground pipelines, the soil boring was located approximately 20 feet northwest of the junction, or "tee" as shown on the adjacent image. The location was within the berms surrounding the release footprint.



2023 Google Earth satellite image

Weather conditions were cloudy with moderate-light but steady rain. Drilling began at 9:20 a.m. MST with instructions to the driller to proceed at a consistent rate and pressure. I continuously monitored the cuttings during each trip while regularly communicating with the driller as to the "feel" of the drilling, with instructions to inform Dr. Decker and me if any moisture was suspected or voids were encountered. I recorded the lithology and moisture content with each trip out of the hole. If any appreciable moisture would have been indicated, the operation would have been suspended to allow the water to accumulate and then measured.

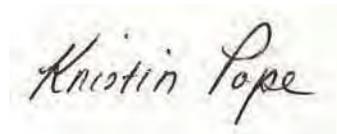
Drilling steadily advanced at a rate of approximately 0.75 feet per minute until 23 feet, when heavy rain precluded inspection of cuttings and drilling ceased until the rain let up at 10:28 a.m. Hard dolomitic and gypsy rock in a matrix of silt and clay caused the need for a bit change at 38 feet. After this depth, drilling slowed to a rate of approximately 0.2 feet per minute. Hard drilling continuing from 52 feet until the remainder of the hole. Dr. Decker also inspected cuttings and communicated with the driller regarding karst considerations until 12:21 p.m. when he departed; we discussed the remainder of the soil boring conditions and lithologies later that day.

At 73 feet, the cuttings became dusty and continued until total depth was reached as planned, at 105 feet. No water or drilling fluids were used during drilling and the hole was backfilled with cuttings. I observed no water or measurable moisture in any of the cuttings I inspected, nor did the driller

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indicate any conditions associated with subsoil dampness or saturation. The experienced driller stated that he did not observe or feel any instances of the bit dropping which indicate the presence of voids.

Representative samples were submitted for laboratory analysis of chloride. Chloride concentrations, drilling conditions, and lithologies are summarized in the enclosed boring log. Based on my observations, I am certain that no groundwater is present below the surface of this well site to 105 feet (3,285 feet asl).

A handwritten signature in cursive script that reads "Kristin Pope". The signature is written in black ink on a light-colored background.

<b>Logger:</b>	Kristin Pope	<b>Client:</b>	Murchison Oil & Gas	<b>Well ID:</b>  <b>SB-1</b> (approx. 20 ft NW of pipeline tee)
<b>Driller:</b>	Ready Drill LLC			
<b>Drilling Method:</b>	CZM EK125 auger	<b>Project Name:</b>		
<b>Start Date:</b>	8/23/2023	Ogden 5A release		
<b>End Date:</b>	8/23/2023	<b>Location:</b>	Eddy County	
moderate and steady rain		32.15434, -104.26397	Sec. 2, T25S, R26E	

Depth (feet BGS)	Description	Time MST	Remarks	Lithology	Completion	Sample ID (chloride mg/kg)	Depth (feet BGS)			
0	Surface	0920	Samples collected from auger bit; all samples were dry		Borehole backfilled with cuttings	Lab Analysis	0			
2	Green-gray silty clay			SB @ 3 ft = 2600		2				
4				4						
6		0923	SB @ 6 ft = 1460	6						
8		Red clay with gray-green silt				8				
10	Red clay with 15% dark gray dolomite	0931		SB @ 10 ft = 544		10				
12						12				
14	Red & gray silt with 15% gray-white gypsum		20 ft - heavy rain delay				SB @ 16 ft = 336	14		
16		0948					SB @ 20 ft = 432	16		
18	Red silt with gray & white, vitreous gypsum flakes; 20% dark gray dolomite	0952						18		
20								20		
22								22		
24								24		
26								26		
28								28		
30	Gray-white gypsum/dolomitic layers with tan silt	1028				38 ft - Heavy rain delay; bit change			SB @ 30 ft = 192	30
32										32
34									34	
36									36	
38									38	
40									40	
42		1110				SB @ 42.5 ft = 288	42			
44	Gray silt with dark gray-white dolomite							44		
46								46		
48								48		
50	Tan-light gray silt with 40% hard, gray limestone or dolostone layers or lenses		52-90 ft - hard drilling				SB @ 52 ft = 208	50		
52		1135						52		
54								54		
56								56		
58								58		
60		1200				At 60 ft, calcite or gypsum crystals appear until TD		60		
62								62		
64								64		
66		1221						66		
68								68		
70				70						
72				72						
74	1240			SB @ 73 ft = 352		74				
76						76				
78			At 79 ft, becomes dusty (finer, less consolidated)					78		
80							80			
82							82			
84							84			
86						86				
88						88				
90	1352					SB @ 73 ft = 384	90			
92							92			
94							94			
96							96			
98							98			
100							100			
102							102			
104							104			
TD 105		1447	TD = 105 ft				SB @ 73 ft = 576	TD 105		

<b>R.T. Hicks Consultants, Ltd</b> 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104	<b>Murchison Oil &amp; Gas</b>	<b>Plate #</b>
	<b>Ogden 5A Release: Soil Boring Log</b>	<b>Sept 2023</b>



3-ft sample: demonstration of plasticity



6-ft sample: appearance of red clay at bottom of auger



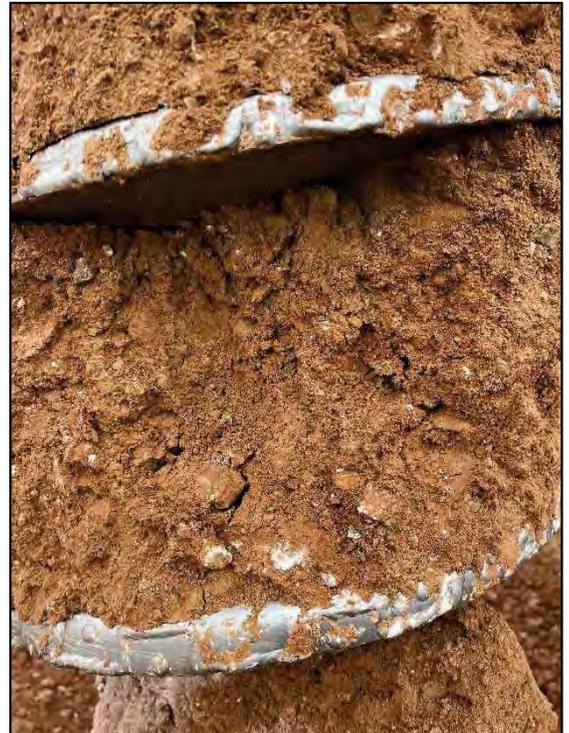
10-ft sample: auger (right), dolomite (bottom)



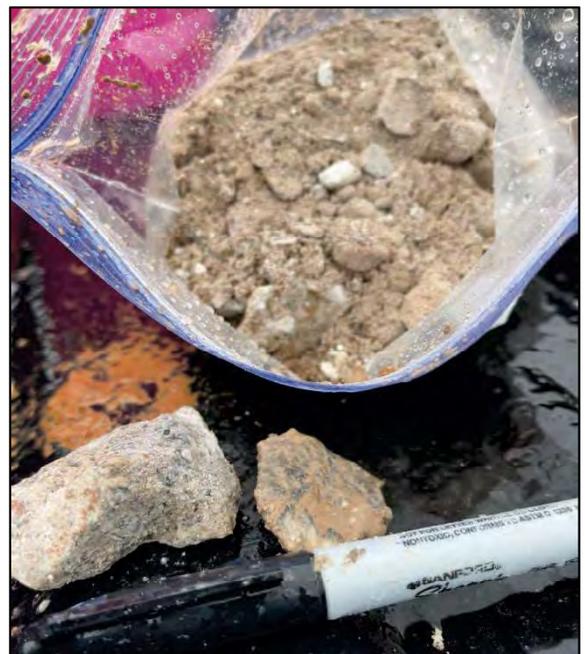


16-ft sample: Silt with gypsum or dolomite

20-ft sample: Auger (left) and vitreous gypsum shown (bottom)



30-ft sample: Dolomite or gypsum with silt





42.5 ft-sample: Silt with dolomite

52-ft sample: hard limestone or dolomite in silt (left),  
auger(right)



60-ft sample



73-ft sample: auger (left), silt with limestone or dolomite (above)

90-ft sample: returns have become dusty



Hard dolomite or limestone at 95 ft



Hard dolomite at 99 ft



105-ft sample from TD (above); spin of final TOOH (left)

# Appendix C

## Certificates of Analysis



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July 03, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: OGDEN STATE 4

Enclosed are the results of analyses for samples received by the laboratory on 06/26/24 14:52.

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](http://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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 1 - SURF (H243836-01)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6260	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	40.1	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 2 - SURF (H243836-02)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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
<b>Chloride</b>	<b>16000</b>	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95	
<b>DRO &gt;C10-C28*</b>	<b>108</b>	10.0	07/02/2024	ND	168	84.2	200	6.19	
<b>EXT DRO &gt;C28-C36</b>	<b>62.7</b>	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 3 - SURF (H243836-03)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>9200</b>	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95	
<b>DRO &gt;C10-C28*</b>	<b>1060</b>	10.0	07/02/2024	ND	168	84.2	200	6.19	
<b>EXT DRO &gt;C28-C36</b>	<b>583</b>	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 4 - SURF (H243836-04)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30	
Total BTEX	<0.300	0.300	07/02/2024	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	52000	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 4 - 1' (H243836-05)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	16000	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 4 - 2' (H243836-06)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95	
<b>DRO &gt;C10-C28*</b>	<b>18.7</b>	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 5 - SURF (H243836-07)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30		
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	40800	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 5 - 1' (H243836-08)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30	
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	16600	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 5 - 2' (H243836-09)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30	
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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
<b>Chloride</b>	<b>12600</b>	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95	
<b>DRO &gt;C10-C28*</b>	<b>15.2</b>	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 6 - SURF (H243836-10)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30		
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	11400	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 6 - 1' (H243836-11)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30	
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	10000	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:	06/26/2024	Sampling Date:	06/25/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ P SEC 2 T25S - R26E		

**Sample ID: SP 6 - 2' (H243836-12)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30	
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	7460	16.0	07/02/2024	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	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

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  
 Project Manager: Daniel Dominguez  
 Address: 4024 Plains Hwy  
 City: Lovington State: NM Zip: 88260  
 Phone #: 575 393-3386 Fax #:   
 Project #:   
 Project Name: Ogden State 4  
 Project Location: UL / P Sec 2 T29S - R26E  
 Sampler Name: Jerry Heidelberg  
 P.O. #:   
 Company: Murchison Oil & Gas  
 Attn: Greg Boans  
 Address: 5325 Sierra Vista  
 City: Carlsbad  
 State: NM Zip: 88230  
 Phone #: 575 706-0667  
 Fax #:

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 :					
1	SP1-Surf	G	1	X						6/25/24		X	X	
2	SP2-Surf	G	1	X						6/25/24		X	X	
3	SP3-Surf	G	1	X						6/25/24		X	X	
4	SP4-Surf	G	1	X						6/25/24		X	X	
5	SP4-1'	G	1	X						6/25/24		X	X	
6	SP4-2'	G	1	X						6/25/24		X	X	
7	SP5-Surf	G	1	X						6/25/24		X	X	
8	SP5-1'	G	1	X						6/25/24		X	X	
9	SP5-2'	G	1	X						6/25/24		X	X	
10	SP6-Surf	G	1	X						6/25/24		X	X	

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Relinquished By: *[Signature]* Date: 6/26/24  
 Time: 1453  
 Received By: *[Signature]*  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_

Delivered By: (Circle One) UPS  
 Sampler - UPS - Bus - Other: 2-A  
 Sample Condition:  Cool  Intact  
 Checked By: *[Signature]* (Initials)  
 \$140

REMARKS:  
 Email results to: pm@hungry-horse.com  
gboans@jdmil.com



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: Ogdan State 4  
 Project Location: UL/P Sec 2 T25S - R26E  
 Sampler Name: Jerry Heidelberg  
 P.O. #:   
 Company: Murchison Oil & Gas  
 Attn: Greg Boans  
 Address: 5325 Sierra Vista  
 City: Carlsbad  
 State: NM Zip: 88230  
 Phone #: 575 706-0667  
 Fax #:

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:					
H743820															
11	SP6-1'	G	1			X					6/25/24		X	X	
12	SP6-2'	G	1			X					6/25/24		X	X	

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Relinquished By: *[Signature]* Received By: *[Signature]*  
 Date: 1/4/24  
 Time: 1:52  
 Relinquished By: *[Signature]* Received By: *[Signature]*  
 Date:   
 Time:   
 Sample Condition:  Cool  Intact  Yes  No

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

Delivered By: (Circle One) *2-2*  
 Sampler - UPS - Bus - Other: *#140*  
 Checked By: *[Signature]*  
 Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

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August 20, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: OGDEN STATE 5A

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 0.5' ) (H244989-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 2' ) (H244989-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	848	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 4' ) (H244989-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	1150	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 0.5' ) (H244989-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	656	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 2' ) (H244989-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	336	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 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:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 4' ) (H244989-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	208	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 0.5' ) (H244989-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 2' ) (H244989-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 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:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 4' ) (H244989-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	256	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 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:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 0.5' ) (H244989-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	1980	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 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:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 2' ) (H244989-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 4' ) (H244989-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/19/2024	ND	432	108	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

**Company Name:** McNabb Partners  
**Project Manager:** Dmitry Nikanorov  
**Address:** 5014 W Carlsbad Hwy  
**City:** Hobbs  
**Phone #:** 917-497-6890  
**Project #:**  
**Project Name:** Ogden State 5A  
**Project Location:** Eddy Co, NM  
**Sampler Name:** Dmitry Nikanorov, Andrew Parker

**P.O. #:**  
**Company:** Murchison Oil & Gas  
**Attn:** Greg Boans  
**Address:** 5325 Sierra Vista Dr.  
**City:** Carlsbad  
**State:** NM **Zip:** 88220  
**Phone #:** 575-706-0667  
**Fax #:**

Lab I.D.	Sample I.D.	(G)GRAB OR (C)OMP.	# CONTAINERS	MATRIX										DATE	TIME	TPH	Chloride	BTEX			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	SAMPLING								
H24089		G	1	X																	
	H-1	G	1	X																	
	H-1	G	1	X																	
	H-1	G	1	X																	
	H-2	G	1	X																	
	H-2	G	1	X																	
	H-2	G	1	X																	
	H-3	G	1	X																	
	H-3	G	1	X																	
	H-3	G	1	X																	
	H-4	G	1	X																	

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**Relinquished By:** [Signature] **Received By:** [Signature]

**Date:** 8/10/24 **Date:** 8/10/24

**Time:** 1805 **Time:** 0900

**Delivered By:** (Circle One) **Observed Temp. °C:** 1.0 **Sample Condition:** Cool Intact **Checked By:** [Signature]

**Sampler - UPS - Bus - Other:** **Corrected Temp. °C:** 0.4 **Sample Condition:** Cool Intact **Checked By:** [Signature]

**Turnaround Time:** 48 hours **Standard:**  **Bacteria (only) Sample Condition:** Cool Intact **Observed Temp. °C:**  **Corrected Temp. °C:**

**Verbal Results:**  Yes  No **Add'l Phone #:**

**REMARKS:** All Results are emailed. Please provide Email address: dmitry@mcnabbpartners.com, andrew@mcnabbpartners.com, laura@mcnabbpartners.com

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





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

---

August 20, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: OGDEN STATE 4

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

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 0.5' ) (H244986-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	528	16.0	08/19/2024	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	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 2' ) (H244986-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	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	208	16.0	08/19/2024	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	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 4' ) (H244986-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	208	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 0.5' ) (H244986-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 2' ) (H244986-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02		
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82		
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND						

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 4' ) (H244986-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 0.5' ) (H244986-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 2' ) (H244986-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 4' ) (H244986-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	48.0	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 0.5' ) (H244986-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	3320	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 2' ) (H244986-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	2800	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 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:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 4' ) (H244986-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	2640	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 66.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4A ( 0.5' ) (H244986-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	1840	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4A ( 2' ) (H244986-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	2040	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4A ( 4' ) (H244986-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	1880	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 ( 0.5' ) (H244986-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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
<b>Chloride</b>	<b>8800</b>	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
<b>DRO &gt;C10-C28*</b>	<b>1890</b>	10.0	08/17/2024	ND	218	109	200	3.82	
<b>EXT DRO &gt;C28-C36</b>	<b>636</b>	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 ( 2' ) (H244986-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	384	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 ( 4' ) (H244986-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	112	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 02 ( 0.5' ) (H244986-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	2200	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 02 ( 2' ) (H244986-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/17/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.10	102	6.00	1.37	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	256	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 02 ( 4' ) (H244986-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/16/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 ( 0.5' ) (H244986-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	1150	16.0	08/19/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 ( 2' ) (H244986-23)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 ( 4' ) (H244986-24)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 ( 0.5' ) (H244986-25)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	GC-NC
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	GC-NC
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	GC-NC
Total BTEX	<0.300	0.300	08/17/2024	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
<b>Chloride</b>	<b>22800</b>	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
<b>DRO &gt;C10-C28*</b>	<b>23.3</b>	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 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:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 ( 2' ) (H244986-26)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	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	2520	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 ( 4' ) (H244986-27)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	3680	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 ( 5' ) (H244986-28)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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
<b>Chloride</b>	<b>4240</b>	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 ( 7' ) (H244986-29)**

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	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	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	2240	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 0.5' ) (H244986-30)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	GC-NC
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16800</b>	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
<b>DRO &gt;C10-C28*</b>	<b>67.5</b>	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 2' ) (H244986-31)**

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	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	GC-NC
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	GC-NC
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 192 % 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	9600	16.0	08/19/2024	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*	90.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	1780	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	144	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 4' ) (H244986-32)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	10800	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 6' ) (H244986-33)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	12000	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 8' ) (H244986-34)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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
<b>Chloride</b>	<b>8660</b>	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 10' ) (H244986-35)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	5330	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 12' ) (H244986-36)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	7920	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 14' ) (H244986-37)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	7920	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 16' ) (H244986-38)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	7920	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 18' ) (H244986-39)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	2600	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 ( 0.5' ) (H244986-40)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 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	5520	16.0	08/19/2024	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	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 ( 2' ) (H244986-41)**

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

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	08/19/2024	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	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 ( 4' ) (H244986-42)**

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

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	1220	16.0	08/19/2024	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	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 ( 6' ) (H244986-43)**

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

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	08/19/2024	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	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 07 ( 0.5' ) (H244986-44)**

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

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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
<b>Chloride</b>	<b>9400</b>	16.0	08/19/2024	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	08/19/2024	ND	242	121	200	1.93	
<b>DRO &gt;C10-C28*</b>	<b>24.7</b>	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 07 ( 2' ) (H244986-45)**

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

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	08/19/2024	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	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 07 ( 4' ) (H244986-46)**

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

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	624	16.0	08/19/2024	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	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 07 ( 6' ) (H244986-47)**

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

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	08/19/2024	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	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 07 ( 8' ) (H244986-48)**

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

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	608	16.0	08/19/2024	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	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
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-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

<b>Company Name:</b> McNabb Partners <b>Project Manager:</b> Dmitry Nikanorov <b>Address:</b> 5014 W Carlsbad Hwy <b>City:</b> Hobbs <b>Phone #:</b> 917-497-6890 <b>Project #:</b> <b>Project Name:</b> Ogden State 4 <b>Project Location:</b> Eddy Co. NM <b>Sampler Name:</b> Dmitry Nikanorov, Andrew Parker		<b>P.O. #:</b> <b>Company:</b> Murchison Oil & Gas <b>Attn:</b> Greg Boans <b>Address:</b> 5325 Sierra Vista Dr. <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> 575-706-0667 <b>Fax #:</b>	
<b>FOR LAB USE ONLY</b> <b>Lab I.D.:</b> #244080 <b>Sample I.D.:</b>		<b>BILL TO</b> <b>ANALYSIS REQUEST</b>	
<b>Matrix:</b> GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: <b>ACID/BASE:</b> ICE / COOL, OTHER:		<b>PRESERV:</b> <input checked="" type="checkbox"/>	
<b>DATE</b> H-1 (0.5) 8/14/24 H-1 (2) 8/14/24 H-1 (4) 8/14/24 H-2 (0.5) 8/14/24 H-2 (2) 8/14/24 H-2 (4) 8/14/24 H-3 (2) 8/14/24 H-3 (4) 8/14/24 H-4 (0.5) 8/14/24		<b>SAMPLING TIME</b> 10:00 10:05 10:10 10:15 10:20 10:25 10:30 10:35 10:40 10:45	
<b>TPH</b> X X X X X X X X X X		<b>Chloride</b> X X X X X X X X X X	
<b>BTEX</b> X X X X X X X X X X			

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**Relinquished By:** [Signature] **Received By:** [Signature]

**Date:** 8/14/24 **Time:** 1305

**Delivered By:** (Circle One)  UPS  Bus  Other:  **Observed Temp. °C:** 1.0 **Corrected Temp. °C:** 0.4

**Sample Condition:**  Cool  Intact  Yes  No  Yes  No

**Checked By:** [Signature] **Turnaround Time:** 48 hours **Standard:**  **RUSH:**

**Thermometer ID #140** **Bacteria (only):**  Cool  Intact  Yes  No  Yes  No **Corrected Temp. °C:**

**Remarks:**

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> McNabb Partners <b>Project Manager:</b> Dmirity Nikanorov <b>Address:</b> 5014 W Carlsbad Hwy <b>City:</b> Hobbs <b>Phone #:</b> 917-497-6890 <b>Project #:</b>		<b>P.O. #:</b> <b>Company:</b> Murchison Oil & Gas <b>Attn:</b> Greg Boars <b>Address:</b> 5325 Sierra Vista Dr. <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> 575-706-0667 <b>Fax #:</b>	
<b>Project Location:</b> Eddy Co. NM <b>Sampler Name:</b> Dmirity Nikanorov, Andrew Parker		<b>BILL TO</b>	
<b>FOR LAB USE ONLY</b>		<b>ANALYSIS REQUEST</b>	
<b>Lab I.D.</b> H24984	<b>Sample I.D.</b> H-4 H-4 H-4 H-4A H-4A H-4A CS-01 CS-01 CS-01 CS-02 CS-02	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE TIME TPH Chloride BTEX
11 12 13 14 15 16 17 18 19 20	(2) (4) (0.5) (2) (4) (0.5) (2) (4) (0.5) (2)	G G G G G G G G G G	1 1 1 1 1 1 1 1 1 1
PLEASE NOTE: Labels and Damages. Containers labels and damage evidence removed by our client during transfer to contract or not, must be noted by the client for the analysis. All claims including those for negligence and any other claims, damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, the subcontractor, or any other party, shall be the responsibility of the client. Cardinal Laboratories is not responsible for any damage to the client's property or equipment.		Turnaround Time: 48 hours Standard RUSH Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C	
<b>Relinquished By:</b> [Signature] Date: 8/10/24 Time: 1:30 PM		<b>Received By:</b> [Signature] Date: 8/10/24 Time: 1:30 PM	
<b>Delivered By:</b> (Circle One) UPS - Bus - Other:		<b>Checked By:</b> [Signature] Initials:	
<b>Observed Temp. °C:</b> 1.0 <b>Corrected Temp. °C:</b> 0.4		<b>Standard:</b> <input checked="" type="checkbox"/> <b>RUSH:</b> <input type="checkbox"/> <b>Bacteria (only) Sample Condition:</b> Cool Intact: <input checked="" type="checkbox"/> Observed Temp. °C: <input type="checkbox"/> Corrected Temp. °C: <input type="checkbox"/>	
Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabnm.com			



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> McNabb Partners <b>Project Manager:</b> Dmirity Nikanorov <b>Address:</b> 5014 W Carlsbad Hwy <b>City:</b> Hobbs <b>Phone #:</b> 917-497-6890 <b>Project #:</b> <b>Project Name:</b> Ogden State 4 <b>Project Location:</b> Eddy Co. NM <b>Sampler Name:</b> Dmirity Nikanorov, Andrew Parker		<b>P.O. #:</b> <b>Company:</b> Murchison Oil & Gas <b>Attn:</b> Greg Boans <b>Address:</b> 5325 Sierra Vista Dr. <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> 575-706-0667 <b>Fax #:</b>													
<b>FOR LAB USE ONLY</b>		<b>BILL TO</b>													
<b>Lab I.D.</b> 12420881 21 23 24 25 26 27 28 29 30	<b>Sample I.D.</b> CS-02 CS-03 CS-03 CS-03 CS-04 CS-04 CS-04 CS-04 CS-04 CS-05	(4) (0.5) (2) (4) (0.5) (2) (4) (5) (7) (0.5)	(G)GRAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING	DATE TIME	TPH Chloride BTEX	ANALYSIS REQUEST								
								G	1	X	8/14/24	12:25	X	X	X
								G	1	X	8/14/24	12:30	X	X	X
								G	1	X	8/14/24	12:35	X	X	X
								G	1	X	8/14/24	12:40	X	X	X
								G	1	X	8/14/24	12:45	X	X	X
								G	1	X	8/14/24	12:50	X	X	X
								G	1	X	8/14/24	12:55	X	X	X
								G	1	X	8/14/24	13:00	X	X	X
								G	1	X	8/14/24	13:05	X	X	X
G	1	X	8/14/24	13:10	X	X	X								

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Relinquished By: *[Signature]* Date: 8/16/24 Received By: *[Signature]* Date: 8/16/24

Delivered By: (Circle One) Observed Temp. °C: 1.0 Corrected Temp. °C: 0.4 Sample Condition: Cool Intact  Yes  No

Sampler - UPS - Bus - Other: Corrected Temp. °C: 0.4  Yes  No

Turnaround Time: 48 hours Standard  RUSH  Add'l Phone #:  Bacteria (only) Sample Condition: Cool Intact  Yes  No

Thermometer ID #140 Correction Factor -0.5°C

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

Verbal Result:  Yes  No Add'l Phone #:  All Results are emailed. Please provide Email address: dmirity@mcnabbpartners.com, andrew@mcnabbpartners.com, laura@mcnabbpartners.com

REMARKS:



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**Company Name:** McNabb Partners  
**Project Manager:** Dimitry Nikanorov  
**Address:** 5014 W Carlsbad Hwy  
**City:** Hobbs  
**Phone #:** 917-497-6890  
**Project #:**  
**Project Name:** Ogden State 4  
**Project Location:** Eddy Co, NM  
**Sampler Name:** Dimitry Nikanorov, Andrew Parker

**State:** NM  
**Zip:** 88240  
**City:** Carlsbad  
**Address:** 5325 Sierra Vista Dr.  
**Phone #:** 575-706-0667  
**Fax #:**

**Matrix:** GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:  
**Preserv:** ICE / COOL, OTHER:  
**Sampling:** DATE, TIME

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH	Chloride	BTEX
40008	CS-05	G	1	X									8/14/24	13:15	X	X	X
	CS-05	G	1	X									8/14/24	13:20	X	X	X
	CS-05	G	1	X									8/14/24	13:25	X	X	X
	CS-05	G	1	X									8/14/24	13:30	X	X	X
	CS-05	G	1	X									8/14/24	13:35	X	X	X
	CS-05	G	1	X									8/14/24	13:40	X	X	X
	CS-05	G	1	X									8/14/24	13:45	X	X	X
	CS-05	G	1	X									8/14/24	13:50	X	X	X
	CS-05	G	1	X									8/14/24	13:55	X	X	X
	CS-06	G	1	X									8/14/24	14:00	X	X	X

**Relinquished By:** [Signature]  
**Date:** 8/14/24  
**Received By:** [Signature]  
**Date:** 8/14/24

**Observed Temp. °C:** 1.0  
**Corrected Temp. °C:** 0.4

**Turnaround Time:** 48 hours  
**Thermometer ID:** #140  
**Correction Factor:** -0.5°C

**Standard:**  **Bacteria (only):**   
**Cool Intact:**  **Sample Condition:**   
**Corrected Temp. °C:**

**Remarks:** Cardinal cannot accept verbal changes. Please email changes to celejy.keene@cardinallabsnm.com



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(575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

<b>Company Name:</b> McNabb Partners <b>Project Manager:</b> Dmirity Nikanorov <b>Address:</b> 5014 W Carlsbad Hwy <b>City:</b> Hobbs <b>Phone #:</b> 917-497-6890 <b>Project #:</b>		<b>State:</b> NM <b>Zip:</b> 88240 <b>Attn:</b> Greg Boans <b>Address:</b> 5325 Sierra Vista Dr. <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> 575-706-0667 <b>Fax #:</b>		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Murchison Oil & Gas <b>Attn:</b> Greg Boans <b>Address:</b> 5325 Sierra Vista Dr. <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> 575-706-0667 <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>							
<b>Project Location:</b> Eddy Co. NM <b>Project Name:</b> Ogden State 4 <b>Sampler Name:</b> Dmirity Nikanorov, Andrew Parker		FOR LAB USE ONLY											
<b>Lab I.D.</b> H244980 U1 U2 U3 U4 U5 U6 U7 U8	<b>Sample I.D.</b> CS-06 CS-06 CS-06 CS-07 CS-07 CS-07 CS-07 CS-07 CS-07	(G)RAB OR (C)COMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV SAMPLING	DATE TIME	TPH Chloride BTEX							
								1	1	8/14/24	14:10	X	X
								1	1	8/14/24	14:25	X	X
								1	1	8/14/24	14:40	X	X
								1	1	8/14/24	15:10	X	X
								1	1	8/14/24	15:25	X	X
								1	1	8/14/24	15:40	X	X
								1	1	8/14/24	15:55	X	X
								1	1	8/14/24	16:10	X	X
								PLEASE NOTE: Liability and damage coverage is excluded for any claim arising out of or from the use of the information provided in this report. The information provided in this report is based on the information provided to us by the client and is not intended to be used for any other purpose. The information provided in this report is not intended to be used for any other purpose. The information provided in this report is not intended to be used for any other purpose.					
<b>Relinquished By:</b> [Signature]		<b>Received By:</b> [Signature]		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		<b>Remarks:</b>							
<b>Date:</b> 8/14/24 <b>Time:</b> 1805		<b>Date:</b> 8/14/24 <b>Time:</b> 0900		<b>Thermometer ID #140</b> <b>Correction Factor -0.5°C</b>		<b>Standard</b> <input checked="" type="checkbox"/> <b>Non-Standard</b> <input type="checkbox"/> <b>Bacteria (only) Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C							
<b>Delivered By:</b> (Circle One) UPS - Bus - Other:		<b>Observed Temp. °C</b> Corrected Temp. °C		<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		<b>Checked By:</b> [Signature]							

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



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

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August 30, 2024

ANDREW PARKER  
MC NABB SERVICES  
P. O. BOX 5753  
HOBBS, NM 88240

RE: OGDEN STATE 5A

Enclosed are the results of analyses for samples received by the laboratory on 08/26/24 16:33.

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](http://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, flowing style.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 0.5' (H245183-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/28/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<b>0.205</b>	0.050	08/28/2024	ND	1.85	92.6	2.00	4.69	
<b>Total Xylenes*</b>	<b>1.20</b>	0.150	08/28/2024	ND	5.52	92.0	6.00	4.78	GC-NC1
<b>Total BTEX</b>	<b>1.41</b>	0.300	08/28/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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
<b>Chloride</b>	<b>528</b>	16.0	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>96.6</b>	10.0	08/27/2024	ND	207	104	200	0.190	
<b>DRO &gt;C10-C28*</b>	<b>1650</b>	10.0	08/27/2024	ND	200	99.8	200	2.08	
<b>EXT DRO &gt;C28-C36</b>	<b>396</b>	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 1' (H245183-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	256	16.0	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	49.7	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	12.4	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 1.5' (H245183-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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
<b>Chloride</b>	<b>256</b>	16.0	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	207	104	200	0.190	
<b>DRO &gt;C10-C28*</b>	<b>27.9</b>	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 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:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 02 0.5' (H245183-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 02 2' (H245183-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	<b>528</b>	16.0	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	207	104	200	0.190	
<b>DRO &gt;C10-C28*</b>	<b>10.0</b>	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 0.5' (H245183-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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
<b>Chloride</b>	<b>896</b>	16.0	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	207	104	200	0.190	
<b>DRO &gt;C10-C28*</b>	<b>54.3</b>	10.0	08/27/2024	ND	200	99.8	200	2.08	
<b>EXT DRO &gt;C28-C36</b>	<b>19.4</b>	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 1' (H245183-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	672	16.0	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 1.5' (H245183-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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
<b>Chloride</b>	<b>480</b>	16.0	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	207	104	200	0.190	
<b>DRO &gt;C10-C28*</b>	<b>13.8</b>	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 0.5' (H245183-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/28/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	352	16.0	08/28/2024	ND	464	116	400	10.9	

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*	12.1	10.0	08/27/2024	ND	207	104	200	0.190		
DRO >C10-C28*	444	10.0	08/27/2024	ND	200	99.8	200	2.08		
EXT DRO >C28-C36	121	10.0	08/27/2024	ND						

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 150 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 1' (H245183-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/28/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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
<b>Chloride</b>	<b>240</b>	16.0	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	207	104	200	0.466	
<b>DRO &gt;C10-C28*</b>	<b>67.9</b>	10.0	08/27/2024	ND	210	105	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 0.5' (H245183-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/28/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	1.85	92.6	2.00	4.69	
<b>Total Xylenes*</b>	<b>0.289</b>	0.150	08/28/2024	ND	5.52	92.0	6.00	4.78	GC-NC1
Total BTEX	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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
<b>Chloride</b>	<b>1070</b>	16.0	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>21.3</b>	10.0	08/27/2024	ND	207	104	200	0.466	
<b>DRO &gt;C10-C28*</b>	<b>1150</b>	10.0	08/27/2024	ND	210	105	200	2.37	
<b>EXT DRO &gt;C28-C36</b>	<b>279</b>	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 2' (H245183-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.95	97.6	2.00	15.1	
Toluene*	<0.050	0.050	08/27/2024	ND	1.97	98.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.08	104	2.00	11.0	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.45	107	6.00	10.1	
Total BTEX	<0.300	0.300	08/27/2024	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
<b>Chloride</b>	<b>688</b>	16.0	08/27/2024	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	08/27/2024	ND	207	104	200	0.466	
<b>DRO &gt;C10-C28*</b>	<b>42.5</b>	10.0	08/27/2024	ND	210	105	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 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:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 0.5' (H245183-13)**

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	08/27/2024	ND	1.95	97.6	2.00	15.1	GC-NC	
Toluene*	<0.050	0.050	08/27/2024	ND	1.97	98.6	2.00	13.0	GC-NC	
<b>Ethylbenzene*</b>	<b>0.957</b>	0.050	08/27/2024	ND	2.08	104	2.00	11.0	GC-NC1	
<b>Total Xylenes*</b>	<b>0.596</b>	0.150	08/27/2024	ND	6.45	107	6.00	10.1	GC-NC1	
<b>Total BTEX</b>	<b>1.55</b>	0.300	08/27/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 172 % 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	
<b>Chloride</b>	<b>288</b>	16.0	08/27/2024	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	
<b>GRO C6-C10*</b>	<b>27.5</b>	10.0	08/27/2024	ND	207	104	200	0.466		
<b>DRO &gt;C10-C28*</b>	<b>377</b>	10.0	08/27/2024	ND	210	105	200	2.37		
<b>EXT DRO &gt;C28-C36</b>	<b>89.0</b>	10.0	08/27/2024	ND						

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 1' (H245183-14)**

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	08/27/2024	ND	1.95	97.6	2.00	15.1	GC-NC	
Toluene*	<0.050	0.050	08/27/2024	ND	1.97	98.6	2.00	13.0	GC-NC	
<b>Ethylbenzene*</b>	<b>0.632</b>	0.050	08/27/2024	ND	2.08	104	2.00	11.0	GC-NC1	
<b>Total Xylenes*</b>	<b>0.394</b>	0.150	08/27/2024	ND	6.45	107	6.00	10.1	GC-NC1	
<b>Total BTEX</b>	<b>1.03</b>	0.300	08/27/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 147 % 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	
<b>Chloride</b>	<b>128</b>	16.0	08/27/2024	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	
<b>GRO C6-C10*</b>	<b>46.4</b>	10.0	08/27/2024	ND	207	104	200	0.466		
<b>DRO &gt;C10-C28*</b>	<b>977</b>	10.0	08/27/2024	ND	210	105	200	2.37		
<b>EXT DRO &gt;C28-C36</b>	<b>295</b>	10.0	08/27/2024	ND						

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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.
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: <u>McNabb Partners</u> Project Manager: <u>Andrew Parker</u> Address: <u>On-File</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>20160512-murchison-ogdenstate5</u> Project Location: <u>Ogden State SA</u> Sampler Name: <u>Christopher Turner</u>		P.O. #: <u>20160512-murchison-ogdenstate5</u> Company: <u>MurchisonDI &amp; Co</u> Address: <u>atmurdg@wcmurchison.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D. _____ Sample I.D. _____ H245/53 1 2 3 4 5 6 7 8 9 10 CS-01 CS-01 CS-01 CS-02 CS-02 CS-03 CS-03 CS-03 CS-04 CS-04		BILL TO ANALYSIS REQUEST	
Date: <u>8/24/24</u> Time: <u>10:33</u> Relinquished By: <u>[Signature]</u> Received By: <u>OPRANA</u>		DATE TIME 08/23 9:28 9:32 9:37 9:45 9:49 10:03 10:09 10:15 10:24	
Observed Temp. °C: <u>18.1</u> Corrected Temp. °C: <u>17.2</u> Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		MATRIX GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ PRESERV: <input checked="" type="checkbox"/> ACID/BASE: _____ <input checked="" type="checkbox"/> ICE / COOL _____ OTHER: _____	
Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition: <input type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		X Chloride X TPH (GRO+DRO+MRO) X BTEX (Benzene)	
Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition: <input type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		REMARKS: _____ Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <u>McNabb Partners</u> Project Manager: <u>Andrew Parker</u> Address: <u>On-File</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>20160312-Murchison-cydenStates</u> Project Location: <u>cyden State SA</u> Sampler Name: <u>Christopher Turner</u>		<b>BILL TO</b> P.O. #: <u>20160312-murchison-cydenStates</u> Company: <u>Murchison Oil &amp; Gas</u> Attn: <u>Mtchaw@MurchPartners.com</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D. _____ Sample I.D. _____ <u>1245153</u> 11 CS-05 0.5' G1 12 CS-05 2' 1 13 CS-06 0.5' 1 14 CS-06 1' 1		MATRIX (G)RAB OR (C)OMP. <input type="checkbox"/> # CONTAINERS <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: <input type="checkbox"/> ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL <input checked="" type="checkbox"/> OTHER: <input type="checkbox"/>	
PRESERV <input checked="" type="checkbox"/> DATE TIME 08/23 11:30 11:33 12:15 12:25		ANALYSIS REQUEST Chloride <input checked="" type="checkbox"/> TPH (GRO+DRO+MRO) <input checked="" type="checkbox"/> BTEX (Benzene) <input checked="" type="checkbox"/>	
Relinquished By: _____ Date: <u>8/24/21</u> Time: <u>10:33</u> Relinquished By: _____ Date: _____ Time: _____		Received By: <u>APDaves</u> Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____	
Delivered By: (Circle One) UPS - Bus - Other: _____ Observed Temp. °C: <u>18.2</u> Corrected Temp. °C: <u>17.2</u>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Checked By: <u>AD</u> Turnaround Time: _____ Thermometer ID #140 Correction Factor: <u>0.6</u>	
Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C: _____ Corrected Temp. °C: _____		Remarks: _____ Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	

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



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

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September 24, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: OGDEN STATE 5A

Enclosed are the results of analyses for samples received by the laboratory on 09/20/24 14:58.

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](http://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:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 6' ) (H245735-01)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	1060	16.0	09/23/2024	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	09/23/2024	ND	212	106	200	0.972	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	218	109	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 8' ) (H245735-02)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	560	16.0	09/23/2024	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	09/23/2024	ND	212	106	200	0.972	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	218	109	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 10' ) (H245735-03)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	1060	16.0	09/23/2024	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	09/23/2024	ND	212	106	200	0.972	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	218	109	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2.1 ( 0.5' ) (H245735-04)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	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
<b>Chloride</b>	<b>1960</b>	16.0	09/23/2024	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	09/23/2024	ND	212	106	200	0.972	
<b>DRO &gt;C10-C28*</b>	<b>66.8</b>	10.0	09/23/2024	ND	218	109	200	1.47	
<b>EXT DRO &gt;C28-C36</b>	<b>148</b>	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2.1 ( 2' ) (H245735-05)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	224	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2.2 ( 0.5' ) (H245735-06)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	512	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2.2 ( 2' ) (H245735-07)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	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	224	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 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:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2.2 ( 4' ) (H245735-08)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1.1 ( 0.5' ) (H245735-09)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1.1 ( 2' ) (H245735-10)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1.1 ( 4' ) (H245735-11)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 5 ( 0.5' ) (H245735-12)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	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	80.0	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 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:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 5 ( 2' ) (H245735-13)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 5 ( 4' ) (H245735-14)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 6 ( 0.5' ) (H245735-15)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	64.0	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 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:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 6 ( 2' ) (H245735-16)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 6 ( 4' ) (H245735-17)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 7 ( 0.5' ) (H245735-18)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	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	64.0	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 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:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 7 ( 2' ) (H245735-19)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	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	48.0	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 7 ( 4' ) (H245735-20)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	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	48.0	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 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:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 8 ( 0.5' ) (H245735-21)**

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	09/23/2024	ND	2.19	110	2.00	2.41	
Toluene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	0.238	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.16	108	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.49	108	6.00	1.51	
Total BTEX	<0.300	0.300	09/23/2024	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	16.0	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 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:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 8 ( 2' ) (H245735-22)**

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	09/23/2024	ND	2.19	110	2.00	2.41	
Toluene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	0.238	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.16	108	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.49	108	6.00	1.51	
Total BTEX	<0.300	0.300	09/23/2024	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	48.0	16.0	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 8 ( 4' ) (H245735-23)**

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	09/23/2024	ND	2.19	110	2.00	2.41	
Toluene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	0.238	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.16	108	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.49	108	6.00	1.51	
Total BTEX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	09/23/2024	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	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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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

<b>Company Name:</b> McNabb Partners <b>Project Manager:</b> Dmirity Nikanorov <b>Address:</b> 5014 W Carlsbad Hwy <b>City:</b> Hobbs <b>Phone #:</b> 917-497-6890 <b>Project #:</b> <b>Project Name:</b> Ogdan State 5A <b>Project Location:</b> Eddy Co. NM <b>Sampler Name:</b> Dmirity Nikanorov		<b>P.O. #:</b> <b>Company:</b> Murchison Oil & Gas <b>Attn:</b> Greg Boarns <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b>	
<b>State:</b> NM <b>Zip:</b> 88240 <b>Project Owner:</b> Murchison Oil & Gas <b>Phone #:</b> <b>Fax #:</b>		<b>BILL TO</b> <b>ANALYSIS REQUEST</b>	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	Chloride	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H245735	H-1.1	G	1	X						9/19/24	9:50	X	X	X
	H-5	G	1	X						9/19/24	9:55	X	X	X
	H-5	G	1	X						9/19/24	10:00	X	X	X
	H-5	G	1	X						9/19/24	10:05	X	X	X
	H-6	G	1	X						9/19/24	10:10	X	X	X
	H-6	G	1	X						9/19/24	10:15	X	X	X
	H-6	G	1	X						9/19/24	10:20	X	X	X
	H-6	G	1	X						9/19/24	10:25	X	X	X
	H-7	G	1	X						9/19/24	10:30	X	X	X
	H-7	G	1	X						9/19/24	10:35	X	X	X

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Relinquished By: *[Signature]* Date: 9/20/24 Received By: *[Signature]* Date: 9/20/24  
 Relinquished By: *[Signature]* Date: 9/20/24 Received By: *[Signature]* Date: 9/20/24

Delivered By: (Circle One) Observed Temp. °C: 29.9 Corrected Temp. °C: 28.3  
 Sampler - UPS - Bus - Other: Sample Condition: Cool Intact Yes No  
 Checked By: *[Signature]* Turnaround Time: 48 hrs Standard Rush Add'l Phone #: *[Blank]*  
 Thermometer ID #140 Correction Factor -0.5°C Bacteria (only) Sample Condition: Cool Intact Yes No Observed Temp. °C: Corrected Temp. °C: *[Blank]*

REMARKS: All Results are emailed. Please provide Email address: dmirity@mcnabbpartners.com

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



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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: McNabb Partners Project Manager: Dmirity Nikanorov Address: 5014 W Carlsbad Hwy City: Hobbs State: NM Zip: 88240 Phone #: 917-497-6890 Fax #: _____ Project #: _____ Project Owner: Murchison Oil & Gas Project Name: Ogden State 5A Project Location: Eddy Co. NM Sampler Name: Dmirity Nikanorov		P.O. #: _____ Company: Murchison Oil & Gas Attn: Greg Boans Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Relinquished By: <i>[Signature]</i> Date: 9/30/24 Time: 9:45 AM Received By: <i>[Signature]</i> Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: <a href="mailto:dmirity@mcnabbpartners.com">dmirity@mcnabbpartners.com</a> REMARKS: _____	
Delivered By: (Circle One) UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other: _____ Observed Temp. °C: 29 Corrected Temp. °C: 23 Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: <i>[Signature]</i> (Initials)		Turnaround Time: 48 hrs Thermometer ID #140 Correction Factor -0.6°C Standard <input checked="" type="checkbox"/> <input type="checkbox"/> Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: _____ Corrected Temp. °C: _____	
Lab I.D. <i>H245735</i> Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE TIME TPH Chloride BTEX	ANALYSIS REQUEST
H-8 (0.5') H-8 (2) H-8 (4)	G 1 G 1 G 1	X X X	X X X

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 811 S. First St., Artesia, NM 88210  
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 Phone:(505) 334-6178 Fax:(505) 334-6170  
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 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 387344

**QUESTIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 387344
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2415825281
Incident Name	NAPP2415825281 OGDEN STATE #005A @ 30-015-37264
Incident Type	Other
Incident Status	Remediation Plan Received
Incident Well	[30-015-37264] OGDEN STATE #005A

**Location of Release Source**

Please answer all the questions in this group.

Site Name	Ogden State #005A
Date Release Discovered	03/12/2016
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

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

Crude Oil Released (bbls) Details	Cause: Normal Operations   Unknown   Crude Oil   Released: 0 BBL (Unknown Released Amount)   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	C-141 requested by OCD for area of impact identified in Google Earth aerial photo. Date of photo used in lieu of unknown release date. Environmental consultant obtained to investigate indicated area of approximately 900 sq. ft. located inside lined tank battery containment. Stained caliche being removed and disposed of at OCD approved facility. Preparing for liner inspection.

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QUESTIONS, Page 2

Action 387344

**QUESTIONS (continued)**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 387344
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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: 09/26/2024
--	---

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QUESTIONS, Page 3

Action 387344

**QUESTIONS (continued)**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 387344
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	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)	16000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2142.6
GRO+DRO (EPA SW-846 Method 8015M)	1746.6
BTEX (EPA SW-846 Method 8021B or 8260B)	1.6
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

*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	10/26/2024
On what date will (or did) the final sampling or liner inspection occur	11/26/2024
On what date will (or was) the remediation complete(d)	12/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	7385
What is the estimated volume (in cubic yards) that will be reclaimed	580
What is the estimated surface area (in square feet) that will be remediated	7385
What is the estimated volume (in cubic yards) that will be remediated	580

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

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

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QUESTIONS, Page 4

Action 387344

**QUESTIONS (continued)**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 387344
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

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

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

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

I hereby agree and sign off to the above statement	Name: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 09/30/2024
--	---

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 387344

**QUESTIONS (continued)**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 387344
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<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 387344

**QUESTIONS (continued)**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 387344
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>384253</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>09/19/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>7</b>
What was the sampling surface area in square feet	<b>1400</b>

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

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CONDITIONS

Action 387344

**CONDITIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 387344
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	10/7/2024
bhall	Excavation closure/final samples must meet the most stringent closure criteria (600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene). The horizontal and vertical extents must be extended past the proposed remediation extents (horizontally and vertically) until the most stringent closure criteria are met.	10/7/2024
bhall	OCD assumes that H-3 (0.5') (H244989-10), H-3 (2') (H244989-11), and H-3 (4') (H244989-12) are mislabeled on the map and should read "H-4 (0.5') (H244989-10), H-4 (2') (H244989-11), and H-4 (4') (H244989-12)". If this is incorrect and H-4 (0.5') (H244989-10), H-4 (2') (H244989-11), and H-4 (4') (H244989-12) were not included on the map, the contamination at H-4 (0.5') (H244989-10) must be addressed during remediation activities.	10/7/2024
bhall	Be advised that OCD will not approved a "closure/deferral report" as specified in the report. A remediation closure request will not be approved if any contamination is left in place. A deferral will not be approved if the contamination is not fully delineated. Please review the Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at <a href="https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/">https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/</a> or <a href="https://www.emnrd.nm.gov/ocd/ocd-forms/">https://www.emnrd.nm.gov/ocd/ocd-forms/</a> .	10/7/2024
bhall	Base and side wall confirmation samples must collected as five (5) point composite samples representative an area not larger than 200 square feet.	10/7/2024
bhall	Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC must be completed prior to the collection of confirmation/final sampling.	10/7/2024
bhall	Additional liner removal may be warranted if the extent of the contamination under the liner cannot be visualized/delineated.	10/7/2024
bhall	Include waste manifests in the next report.	10/7/2024
bhall	Submit a complete and accurate report through the OCD Permitting website by 12/7/2024.	10/7/2024