

October 22, 2024

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

RE: Deferral Request

Incident ID: nAPP2415754364 Carbon Valley 25 Fed #007H

Project ID: 20130416-murchison-carbonValley25_7H

NMOCD:

McNabb Partners submits this deferral request on behalf of 3R Operating, LLC. This document describes site assessment, soil sample analysis and deferral request for Carbon Valley 25 Fed #007H (Site)

On June 05, 2024; NMOCD notified the operator at the time, Murchison Oil and Gas, to submit a Notification of Release (NOR) for the subject legacy release first identified on an April 16, 2013, Google Earth aerial image. The cause of release is unknown. Prior to all site assessment activities, all impacted gravel was hand-shoveled and hauled off to the approved disposal facility. The release consisted of 5.7 barrels (bbls) of crude oil. The attached volume calculation is based on actual gravel volume removed and hauled to R360 for proper disposal.

1. Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1-4. Please refer to the characterization table below for additional setback criteria and Plats 2-9 for verification.

1.1. Site Map

The horizontal extent of the release was determined by the extent of hydrocarbon impacted gravel removed within the tank battery containment. Plate 1 shows the release extent relative to Carbon Valley 25 Federal Com #007H site pad. The suspected source of the release is located at 32.898370, -104.239685 (Lat, Long; NAD83).



Site Characterization	
What is the shallowest depth to groundwater (ft bgs) Plate 2	<50 ft bgs (Unknown)
What measure was used to determine this?	N/A
Did this release impact ground or surface water?	No
What is the minimum distance, between the closest lateral	
extents of the release and the following surface areas:	
 A continuously flowing watercourse or any other significant watercourse. Plate 4 	3,100 ft E (Wetland)
 Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark). 	>0.5 mile
 An occupied permanent residence, school, hospital, institution or church. 	>0.5 mile
 A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes. 	>1 mile SE (Livestock watering well)
• Any other fresh water well or spring. Plate 3	>1 mile ft SE (Livestock watering well)
 Incorporated municipal boundaries or a defined municipal fresh water well field. Plate 3	>0.5 mile
• A wetland. Plate 6	3,100 ft E
• A subsurface mine. Plate 7	>0.5 mile
 A (non-karst) unstable area. 	Within High Karst
 Categorize the risk of this well/site being in a karst geology. Plate 8 	High Karst
• A 100-year floodplain. Plate 9	2,800 ft SE
 Did the release impact areas not on an exploration, development, production, or storage site? 	No

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1.2. Depth to Ground Water

Based on a review of the USGS and NMOSE groundwater databases, there are no known groundwater sources within ½-mile of the Site. The nearest identified boring RA 12455 POD1 is located more than 1 mile southeast of the release extent and was drilled in 2016 to 200 ft below ground surface. Groundwater was first encountered at 55 feet below ground surface. The well is used for livestock watering purposes. The boring is identified on Plate 2 according to the OSE File Number (RA-12455 (POD1)). The driller log is located in Appendix B.

1.3. Wellhead Protection Area

Plate 3 shows that the release extent is:

- 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 release extent is:

- Within ½ mile of a significant water course (lake/pond).
- 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).

Plate 6 shows that the release extent is:

- Within a ½ mile of a significant water course (freshwater emergent wetland).
- Not within 300 feet of a continuously flowing watercourse or any other significant watercourse.

1.5. Soil/Waste Characteristics

The USDA Natural Resources Conservation Service (NRCS) soil survey¹ describes the upper 5-feet of lithology as a mixture of Gypsum land-Cottonwood complex and Reeves-Gypsum land complex:

- Gypsum land-Cottonwood complex (57.3% of area)
 - o Slope: 0 to 3 percent

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¹ NRCS Field Guide and the NRCS web survey tool (https://websoilsurvey.nrcs.usda.gov/app/)



- Typical profile
 - ✓ *H1 0 to 8 inches:* loam
 - ✓ H2 8 to 60 inches: bedrock
- Reeves-Gypsum land complex (42.7% of area)
 - o Slope: 0 to 3 percent
 - o Typical profile
 - \checkmark H1 0 to 8 inches: loam
 - ✓ H2 8 to 32 inches: sandy loam
 - ✓ H2 32 to 60 inches: gypsiferous material

The lithology as described by the NRCS is consistent with professional observations during hand auger borehole activities during characterization sampling.

1.6. Initial Liner Inspection and Repairs

Prior to liner inspection, approximately 32 cubic yards of hydrocarbon impacted gravel was removed off-site for proper disposal. The gravel was removed by hand shoveling and broom sweeping.

On June 24th, 2024, McNabb Partners were on site to perform an initial liner inspection. Notifications of sampling and liner inspections are located in Appendix A. During the initial liner inspection, one (1) significant breach and several minorly stressed areas of the were identified within the lined containment was identified within the lined tank battery. Following the initial sampling event and liner inspection, the liner has been patched and repaired accordingly. Figures 1 through 4 show the condition of the liner during initial inspection and Figure 5 and 6 shows soil sample from the hole in the liner.

1.7. Closure Criteria

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

High Karst Potential	Chloride	GRO+DRO	TPH Ext.	Benzene	BTEX
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Closure Criteria	600		100	10	50

2. Site Assessment and Characterization Sampling

During the liner inspection on June 24th, 2024, one grab characterization sample (CS-01) was collected from the breach in the liner at depths of 0-2 ft and 2-4 below ground surface. All samples were analyzed for BTEX, Benzene, TPH and Chloride by Cardinal Laboratories. Analytical results indicated that all samples met closure criteria for the site.

On August 13th, 2024, McNabb Partners were on site to complete lateral delineation of the impacts directly outside of the lined tank battery. 4 characterization sample points (i.e., CS-02 through CS-05) were installed with GeoProbe. Grab soil samples were collected at depths of 0.5, 2 and 4 ft bgs. All samples were analyzed for BTEX, TPH and Chloride by Cardinal Laboratories. Analytical

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results indicated that sample point CS-04 exceeded closure criteria at 0.5 ft bgs. All other samples met closure criteria for the site. To complete a lateral delineation around the lined tank battery, sample CS-04A was collected on September 19th, 2024, at the depth of 0.5 ft bgs. A sample was analyzed for BTEX, TPH and met closure criteria for the site.

Following a conversation with NMOCD, McNabb Partners returned to the site on September 19th, 2024, to cut a 5x5 ft hole for a composite sample in every area where liner has been patched and repaired. Composite samples were to be collected from 5x5 holes at the surface depth (0 ft bgs) under the liner and analyzed for TPH, BTEX and chloride by a certified laboratory. A composite sample CS-01 was collected around the hole in the liner (previously sampled as a grab CS-01 on 6/24/2024). During the site visit, it was noted that cutting multiple 5x5 ft holes in the liner would compromise its integrity, making it impossible to repair effectively after. Therefore, the liner would not be able to contain any future releases. After a conversation with NMOCD and Murchison Oil and Gas, the impacted areas of the liner were to be removed completely and sampled accordingly. The conditions of the soil under the liner are shown in Figures 7 through 11.

On October 4th, 2024, after all impacted areas of the liner have been cut out and removed, McNabb Partners collected 11 composite surface samples (i.e., FS-01 through FS-11), each representing an area no greater than 200 sq ft. All samples were analyzed for BTEX, TPH and chloride concentrations. Samples FS-01 and FS-08 through FS-11 exceeded closure criteria concentrations for TPH. On October 7th, 2024, 4 grab vertical delineation samples (i.e., G-1 through G-4) were collected in the areas with highest field chloride concentrations and most visually impacted areas showing saturated stains and/or salt precipitate crusting. Samples were collected with a geotechnical hand auger at depths ranging from 0.5 to 4 ft bgs. All samples were analyzed for BTEX, TPH and chloride concentrations. Complete vertical delineation was obtained for all sample points G-1 through G-4 at various depths.

3. Remediation Activities and Confirmation Sampling

Remediation activities and confirmation sampling event were conducted on October 8th, 2024. An impacted area east of the lined containment, represented by sample point CS-04 at 0.5 ft bgs, was excavated to a depth of 1 ft bgs (Figures 17 and 18).

The confirmation soil samples (5-point composite) were collected from areas not greater than 200 square feet (or less) from the excavation bases and sidewalls and analyzed for TPH, BTEX and chloride by a certified laboratory.

1 confirmation sample was collected from the base of the excavation (i.e., BS-01 at 1 ft bgs) and 4 confirmation samples were collected from the walls of the excavation (i.e., WS-01 through WS-04). Analytical results indicate that all confirmation samples met NMOCD closure criteria for chloride concentrations listed in Table I (19.15.29 NMAC).

- Plate 1 shows a site map of the entire Carbon Valley 25 Fed 7 well pad.
- Plates 2 through 9 provide complete site characterization information.
- Plates 10, 11 & 12 show all site characterization, surface composite and grab delineation samples respectively.

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- Plate 13 shows the final excavation extent and confirmation sample locations.
- Table A shows the summary of all laboratory data for each sample collected at Site
- All sampling notifications and communications are included in Appendix A.
- Well driller log is included in Appendix B.
- Laboratory Reports and Chains of Custodies for all samples are included in Appendix C.
- Figures 1 through 18 show the photolog of various activities on Site.

4. Deferral Request

Deferral Requests Only	
Requesting a deferral of the remediation closure due date with approval	Yes
of this submission?	
Have the lateral and vertical extents of the contamination been fully	Yes
delineated?	
Is the remaining contamination in areas immediately under or around	Yes
production equipment where remediation could cause a major facility	
deconstruction?	
What is the remaining surface area (in sq ft) that will still need to be	2050
remediated if deferral is granted?	
What is the remaining volume (in cubic yards) what still needs to be	152
remediated if the deferral is granted?	
Enter the facility ID on which this deferral should be granted	
Enter the well API on which this deferral should be granted	30-015-38060
Contamination does not cause an imminent risk to human health, the	Yes
environment or groundwater.	

McNabb Partners on behalf of 3R Operating, LLC respectfully ask NMOCD for deferral of remediation around active production equipment due to multiple storage tanks and surface pipelines within the containment area. The contamination is fully delineated in sample points G-1 through G-4 at depths between 0.5 and 4 ft bgs and does not cause an imminent risk to human health, the environment, or ground water. The remaining affected soil is confined to the space directly beneath the lined containment and production equipment, where remediation would cause significant deconstruction of the facility.

The remaining soil impacts at the surface (i.e., sample points FS-01 through FS-11) and at the depth (i.e., sample points G-1 through G-4) will be addressed during the facility decommissioning phase in accordance with 19.15.29.12 and 19.15.29.13 NMAC, once the site is no longer being used for oil and gas operations. If the deferral request is approved, a new liner material will be installed and backfilled with a clean gravel layer on top, in the areas where liner has been previously removed. Upon NMOCD request, before the liner installation, a Micro-Blaze solution can be applied to the impacted areas to degrade hydrocarbons present in soil while the facility is still in use.

An action report detailing the final remediation and reclamation efforts and following confirmation sampling activities will be submitted to NMOCD upon the completion of the future work.

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

Sincerely,

Dimitry Nikanorov Project Manager

McNabb Partners (917) 497-6890

MP

Copy: Brad Grandstaff, 3R Operating, LLC

Bureau of Land Management Murchison Oil and Gas

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Figure 1. Initial Liner Inspection.



Figure 2. Initial Liner Inspection.



Figure 3. Initial Liner Inspection.



Figure 4. Initial Liner Inspection.



Figure 5. Hole in the liner (CS-01)



Figure 6. Sampling activities (CS-01 – grab)

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Figure 7. Soil conditions after liner removal

Figure 8. Soil conditions after liner removal



Figure 9. Soil conditions after liner removal. Figure 10. Soil conditions after liner removal.





Figure 11. Soil conditions after liner removal. Figure 12. Surface composite sample (FS-03).

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Fig. 13. Surface composite sample (FS-01).



Fig. 14. Surface composite sample (FS-11).

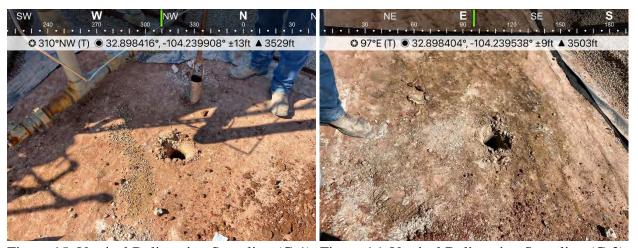


Figure 15. Vertical Delineation Sampling (G-1). Figure 16. Vertical Delineation Sampling (G-3).



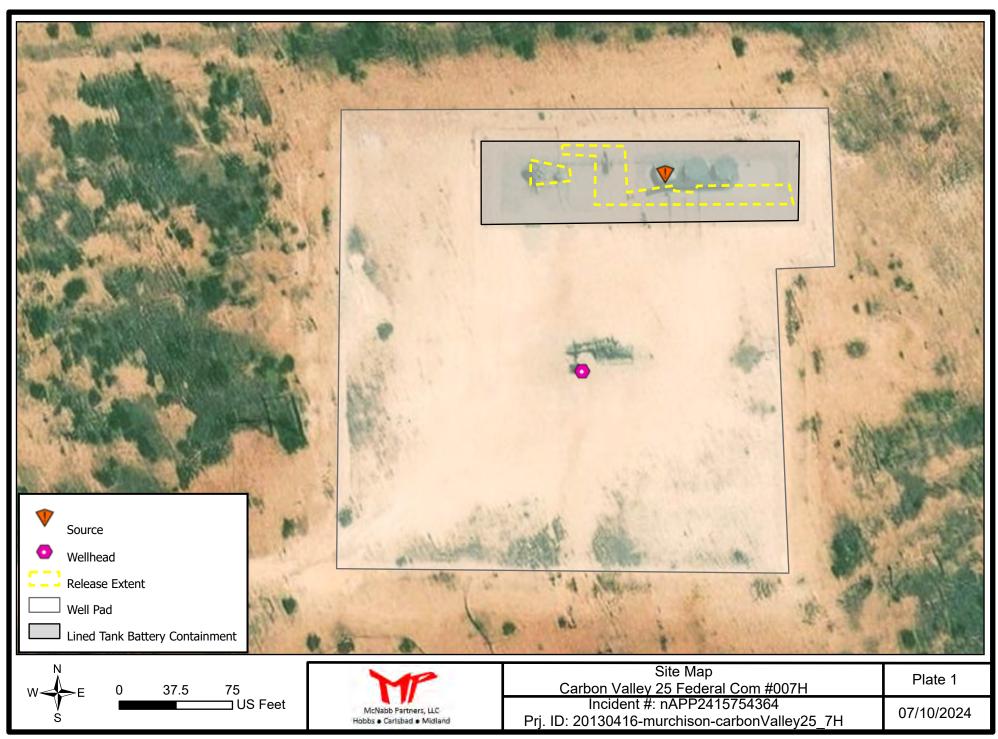
Figure 17. 1 ft Excavation.

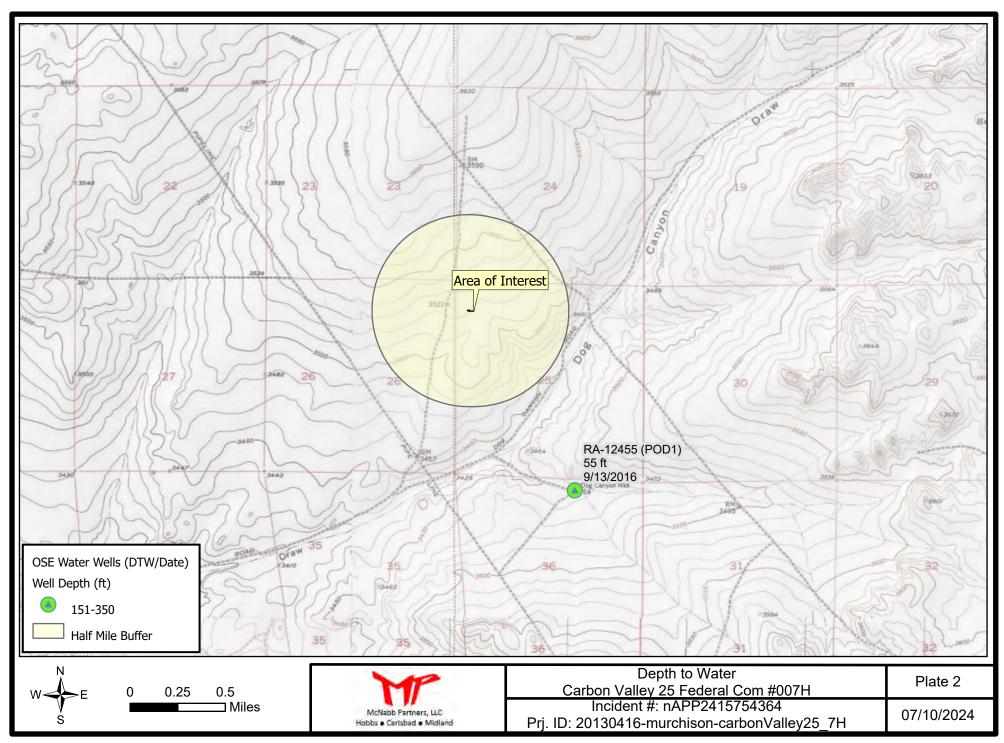
Figure 18. 1 ft Excavation.

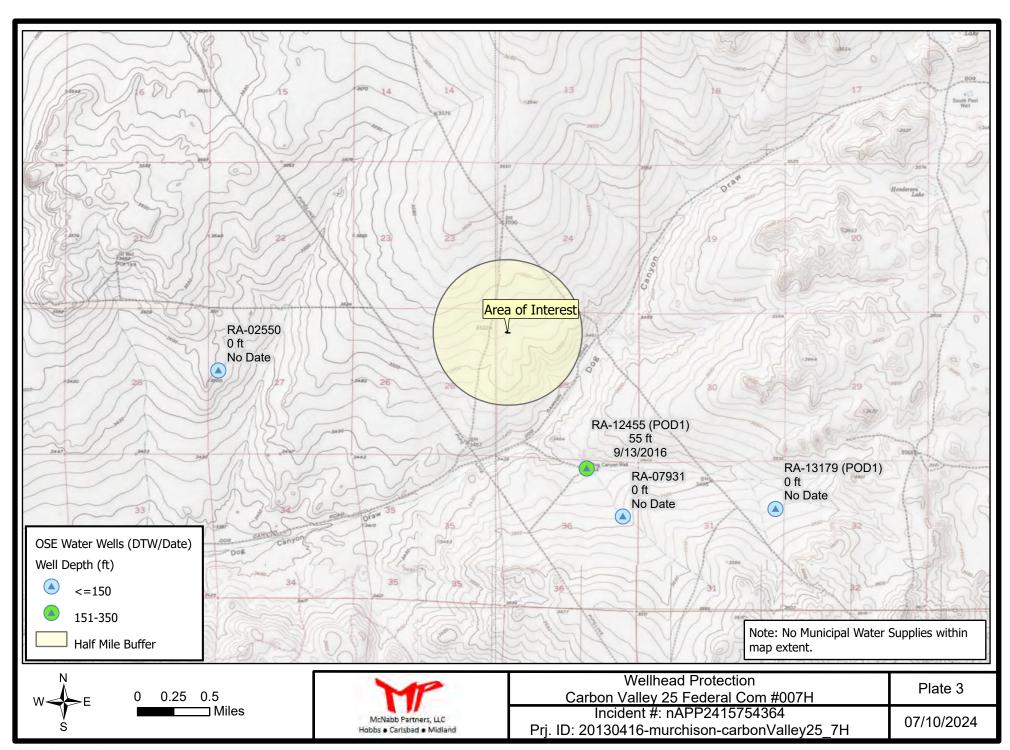
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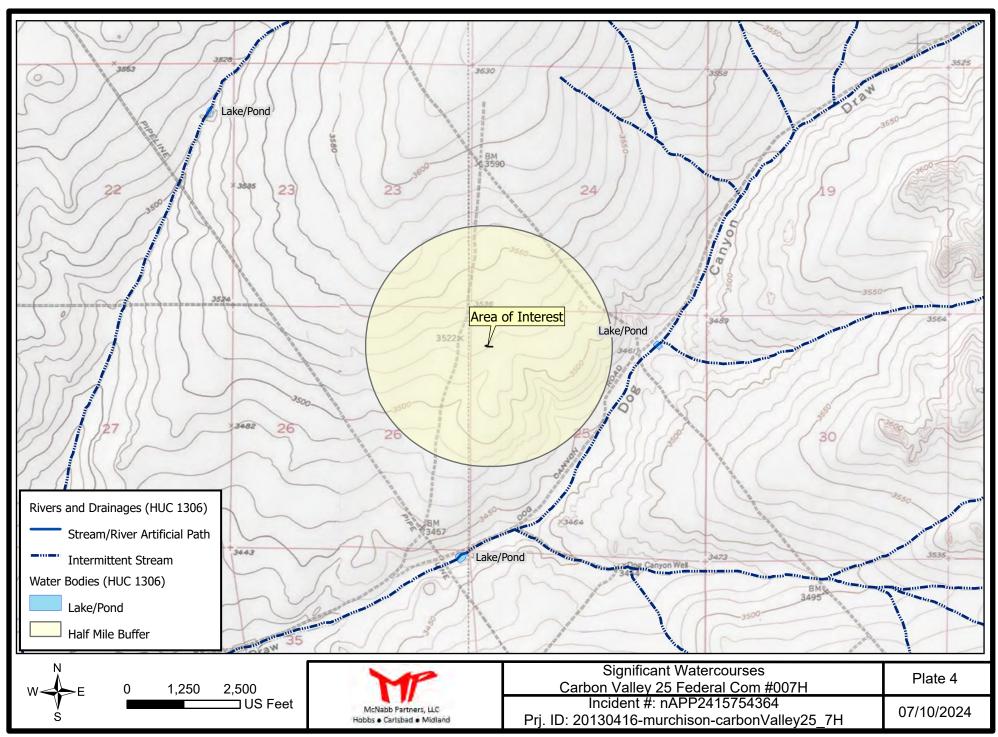
Plates

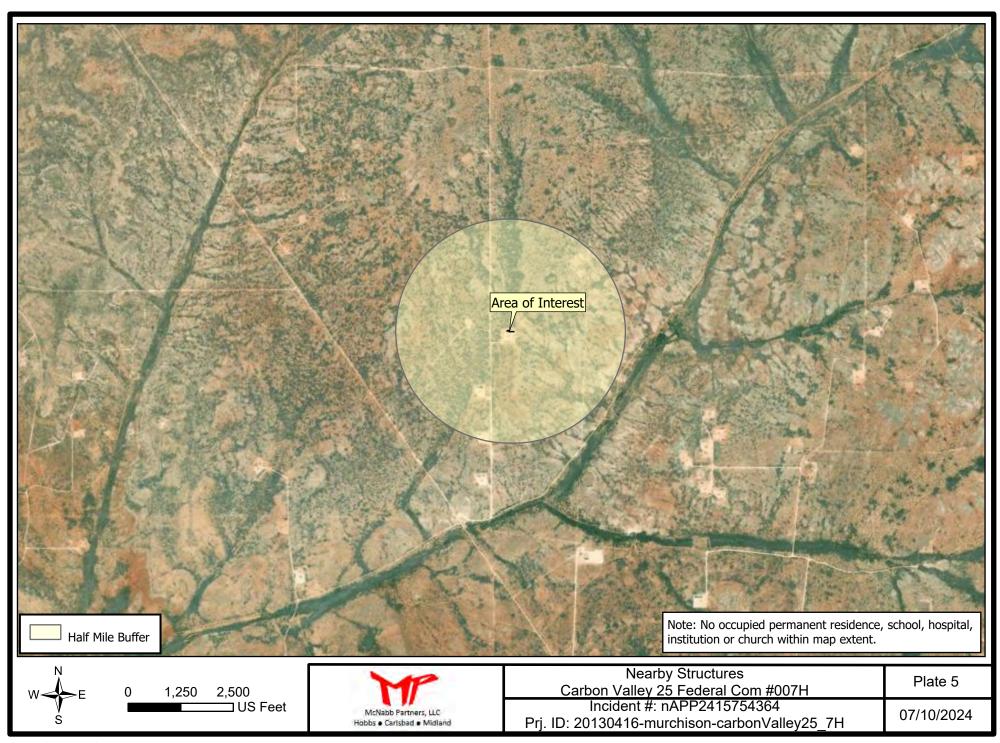


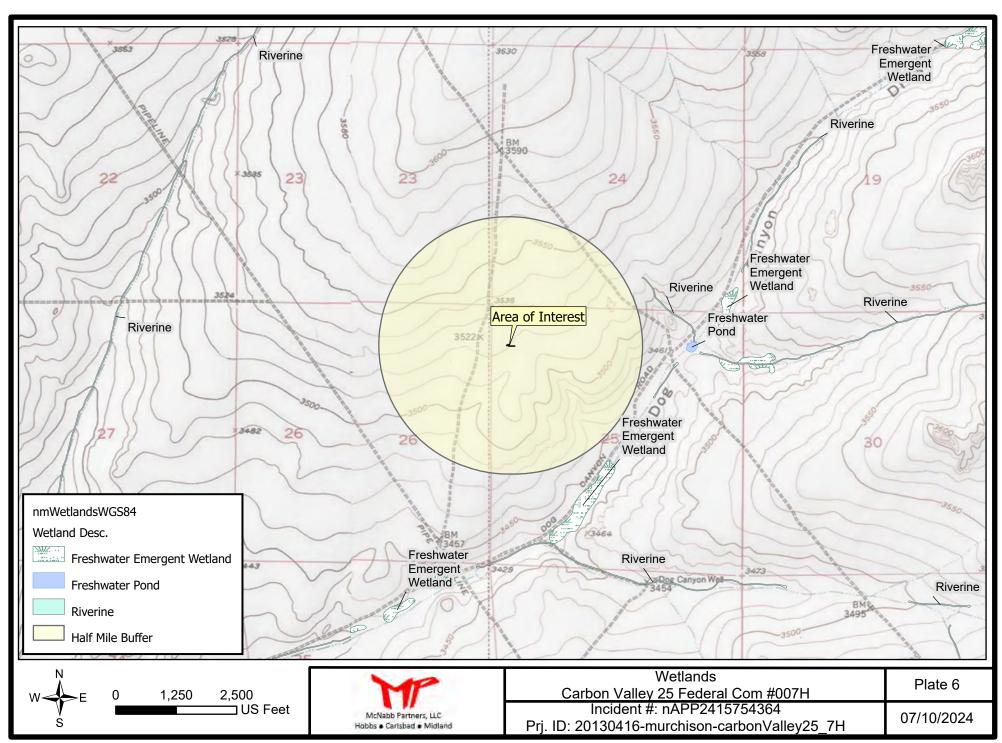


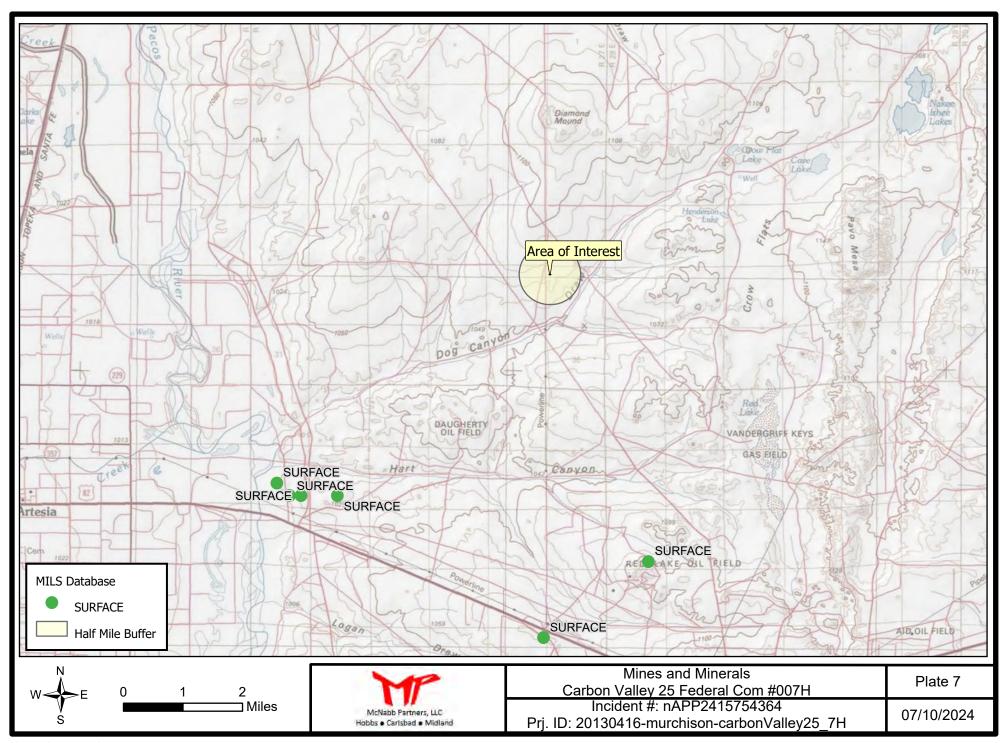


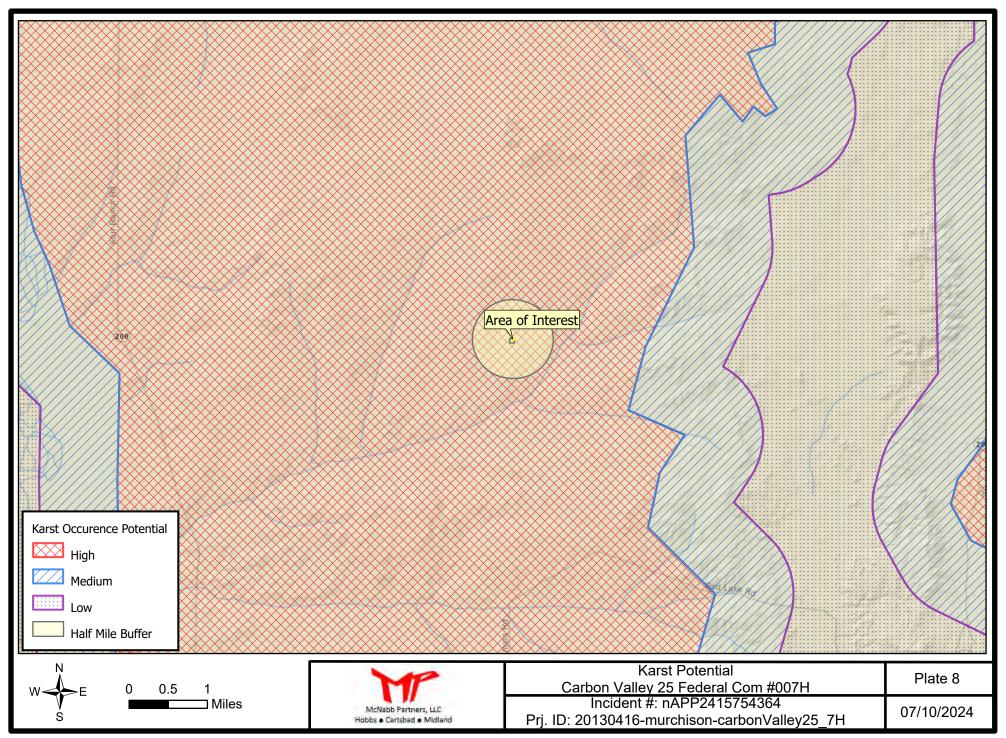


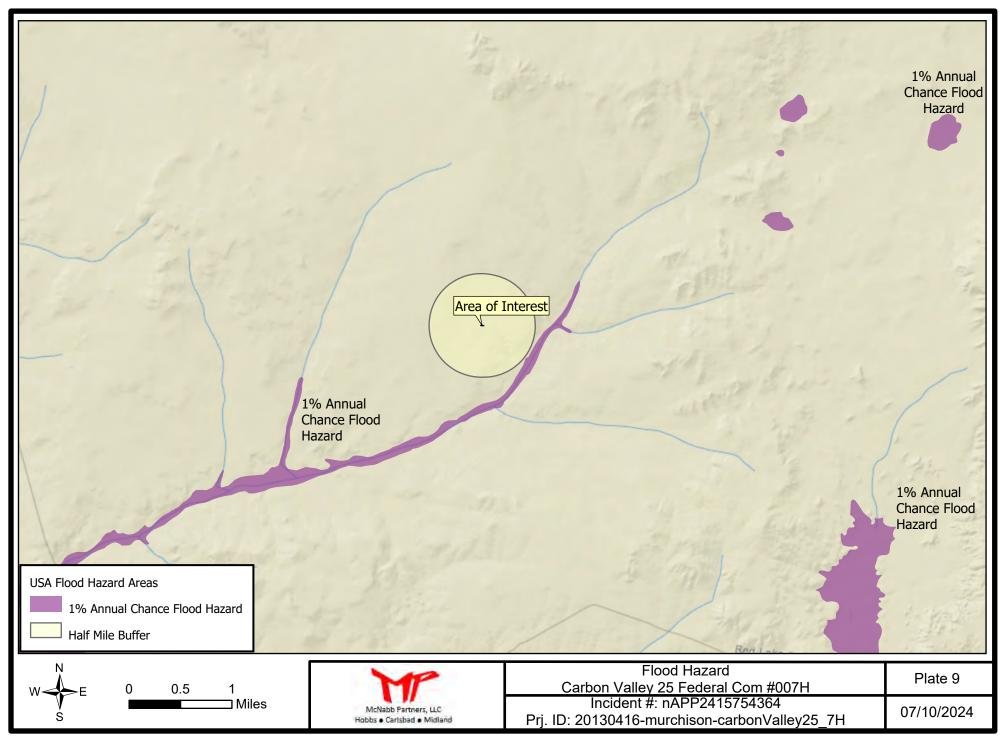




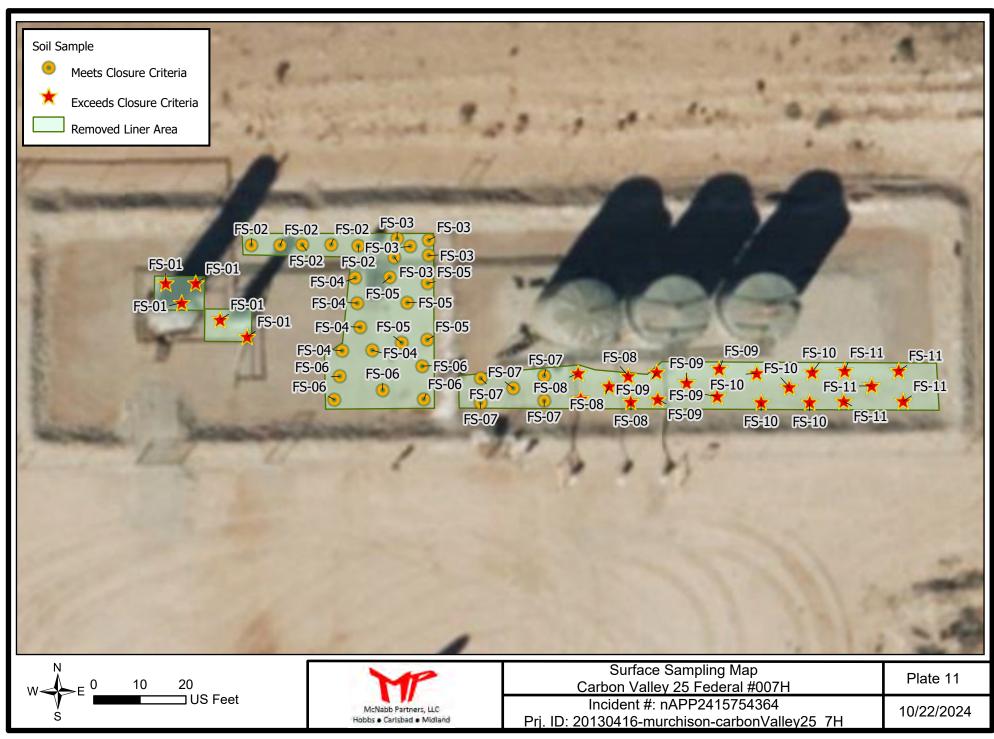


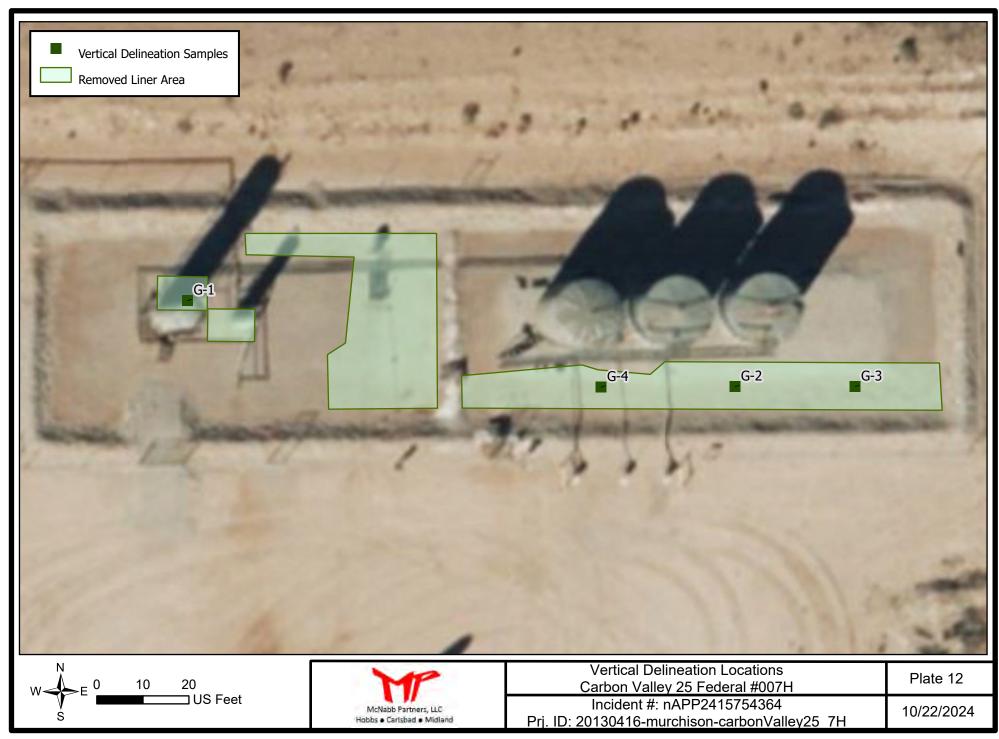


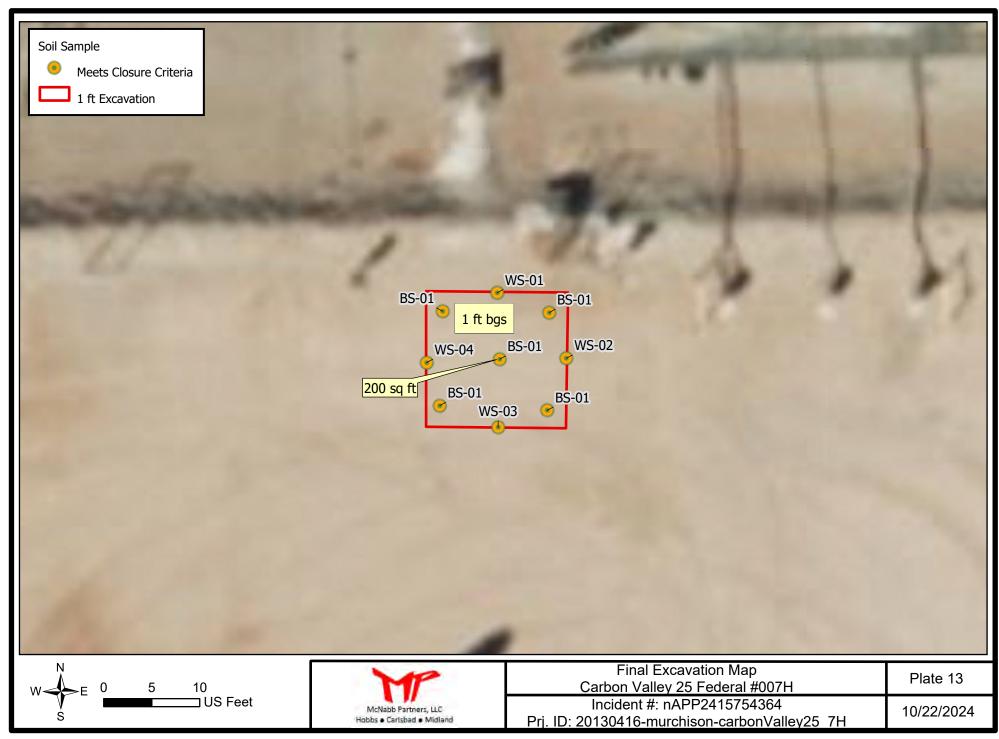












Tables



Table A. Analytical Summary Carbon Valley 25 Fed #007

Sample ID	Date	Depth	Chloride	GRO	DRO	GRO+DRO	MRO	TPH Ext.	Benzene	BTEX	Lab	Lab #
Sattiple to	Date	(Feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(Hall/Cardinal)	
NMOCD Closure Criteria			600	1	-	1	-	100	10	50		
				Surface Com	posite Samp	les						
CS-01	9/19/2024	0	144	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H245736-01
FS-01	10/4/2024	0	208	<10.0	664	664	209	873	<0.050	<0.300	Cardinal	H246076-01
FS-02	10/4/2024	0	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246076-02
FS-03	10/4/2024	0	128	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246076-03
FS-04	10/4/2024	0	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246076-04
FS-05	10/4/2024	0	400	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246076-05
FS-06	10/4/2024	0	96	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246076-06
FS-07	10/4/2024	0	544	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246076-07
FS-08	10/4/2024	0	48	<10.0	183	183	137	320	<0.050	<0.300	Cardinal	H246076-08
FS-09	10/4/2024	0	80	<10.0	2760	2760	1550	4310	<0.050	<0.300	Cardinal	H246076-09
FS-10	10/4/2024	0	64	<10.0	736	736	314	1050	<0.050	<0.300	Cardinal	H246076-10
FS-11	10/4/2024	0	304	<10.0	2170	2170	886	3056	<0.050	<0.300	Cardinal	H246076-11
			Ver	tical Delinea	tion Grab Sa	mples						
CS-01	6/24/2024	0-2	160	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H243779-01
CS-01	6/24/2024	2-4	336	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H243779-02
G-1	10/7/2024	0.5	160	<10.0	1910	1910	1100	3010	<0.050	<0.300	Cardinal	H246092-01
G-1	10/7/2024	2	576	<10.0	<10.0	<20.0	19.9	19.9	<0.050	<0.300	Cardinal	H246092-02
G-1	10/7/2024	4	384	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246092-03
G-2	10/7/2024	0.5	160	<10.0	2760	2760	1030	3790	<0.050	<0.300	Cardinal	H246092-04
G-2	10/7/2024	2	208	<10.0	39.1	39.1	30.6	69.7	<0.050	<0.300	Cardinal	H246092-05
G-2	10/7/2024	4	352	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246092-06
G-3	10/7/2024	0.5	48	<10.0	23.0	23.0	<10.0	23.0	<0.050	<0.300	Cardinal	H246092-07
G-3	10/7/2024	2	864	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246092-08
G-3	10/7/2024	4	96	<10.0	29.8	29.8	<10.0	29.8	<0.050	<0.300	Cardinal	H246092-09
G-4	10/7/2024	0.5	544	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246092-10
G-4	10/7/2024	2	112	<10.0	26.9	26.9	<10.0	26.9	<0.050	<0.300	Cardinal	H246092-11
G-4	10/7/2024	4	352	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246092-12
			Horiz	ontal Deline	ation Grab S	amples						
CS-02	8/13/2024	0.5	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-01
CS-02	8/13/2024	2	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-02
CS-02	8/13/2024	4	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-03
CS-03	8/13/2024	0.5	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-04
CS-03	8/13/2024	2	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-05
CS-03	8/13/2024	4	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-06
CS-04	8/13/2024	0.5	1120	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-07
CS-04	8/13/2024	2	400	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-08
CS-04	8/13/2024	4	464	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-09
CS-04A	9/19/2024	0.5	240	<10.0	22.6	22.6	<10.0	22.6	<0.050	<0.300	Cardinal	H245736-02
CS-05	8/13/2024	0.5	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-10

Table A. Analytical Summary Carbon Valley 25 Fed #007

Sample ID	Date	Depth	Chloride	GRO	DRO	GRO+DRO	MRO	TPH Ext.	Benzene	BTEX	Lab	Lab#	Į,
Sample 1D	Date	(Feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(Hall/Cardinal)		, (
NMOCD Closure Criteria			600					100	10	50			,
CS-05	8/13/2024	2	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-11	
CS-05	8/13/2024	4	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H244990-12	
			Exc	avation Con	firmation Sa	mples							
BS-01 (base sample)	10/8/2024	1	256	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246130-01	
WS-01 (side wall)	10/8/2024	0-1	176	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246130-02	
WS-02 (side wall)	10/8/2024	0-1	576	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246130-03	
WS-03 (side wall)	10/8/2024	0-1	336	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246130-04	. :
WS-04 (side wall)	10/8/2024	0-1	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246130-05	
Legend:													
Sample exceeds NMOCD Closure Criteria													ı
Sample point has been excavated													ı

Appendix A

Communications



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

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

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

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

QUESTIONS

Action 355956

QUESTIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	355956
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415754364
Incident Name	NAPP2415754364 CARBON VALLEY 25 FEDERAL COM #007H @ 30-015-38060
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-38060] CARBON VALLEY 25 FEDERAL COM #007H

Location of Release Source						
Site Name	Carbon Valley 25 Federal Com #007H					
Date Release Discovered	04/16/2013					
Surface Owner	Federal					

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	10,000
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	06/24/2024
Time liner inspection will commence	02:00 PM
Please provide any information necessary for observers to liner inspection	Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890
Please provide any information necessary for navigation to liner inspection site	GPS coordinates: 32.8983695, -104.239828

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

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

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

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

CONDITIONS

Action 355956

CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	355956
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
aparkermp	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.	6/19/2024

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

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

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

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

QUESTIONS

Action 355957

QUESTIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	355957
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415754364
Incident Name	NAPP2415754364 CARBON VALLEY 25 FEDERAL COM #007H @ 30-015-38060
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-38060] CARBON VALLEY 25 FEDERAL COM #007H

Location of Release Source	
Site Name	Carbon Valley 25 Federal Com #007H
Date Release Discovered	04/16/2013
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	10,000
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/24/2024
Time sampling will commence	02:00 PM
Please provide any information necessary for observers to contact samplers	Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.8983695, -104.239828

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

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

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

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

CONDITIONS

Action 355957

CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	355957
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
aparkermp	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.	6/19/2024

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

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

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

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

QUESTIONS

Action 362371

QUESTIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	362371
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415754364
Incident Name	NAPP2415754364 CARBON VALLEY 25 FEDERAL COM #007H @ 30-015-38060
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-38060] CARBON VALLEY 25 FEDERAL COM #007H

Location of Release Source	
Site Name	Carbon Valley 25 Federal Com #007H
Date Release Discovered	04/16/2013
Surface Owner	Federal

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	10,000
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	07/12/2024
Time liner inspection will commence	09:30 AM
Please provide any information necessary for observers to liner inspection	Please contact dimitry@mcnabbpartners.com if needed. 917-497¬-6890
Please provide any information necessary for navigation to liner inspection site	GPS coordinates: 32.8983695, -104.239828

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

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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 362371

CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	362371
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By		Condition Date
aparkermp	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.	7/9/2024

District III

<u>District I</u> 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

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

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

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

QUESTIONS

Action 372130

QUESTIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	372130
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415754364
Incident Name	NAPP2415754364 CARBON VALLEY 25 FEDERAL COM #007H @ 30-015-38060
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-38060] CARBON VALLEY 25 FEDERAL COM #007H

Location of Release Source	
Site Name	Carbon Valley 25 Federal Com #007H
Date Release Discovered	04/16/2013
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	800
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/13/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.8983695, -104.239828

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

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

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

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

CONDITIONS

Action 372130

CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	372130
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By		Condition Date
aparkermp	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 III

<u>District I</u> 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

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

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

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

QUESTIONS

Action 383787

QUESTIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	383787
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415754364
Incident Name	NAPP2415754364 CARBON VALLEY 25 FEDERAL COM #007H @ 30-015-38060
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-38060] CARBON VALLEY 25 FEDERAL COM #007H

Location of Release Source	
Site Name	Carbon Valley 25 Federal Com #007H
Date Release Discovered	04/16/2013
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,000
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	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 if needed. 917-497-6890
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.8983695, -104.239828

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

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

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

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

CONDITIONS

Action 383787

CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	383787
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
aparkermp	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.	9/16/2024

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

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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 383782

QUESTIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	383782
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415754364
Incident Name	NAPP2415754364 CARBON VALLEY 25 FEDERAL COM #007H @ 30-015-38060
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-38060] CARBON VALLEY 25 FEDERAL COM #007H

Location of Release Source	
Site Name	Carbon Valley 25 Federal Com #007H
Date Release Discovered	04/16/2013
Surface Owner	Federal

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	2,000
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	09/19/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890
Please provide any information necessary for navigation to liner inspection site	GPS coordinates: 32.8983695, -104.239828

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

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

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

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

CONDITIONS

Action 383782

CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	383782
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By		Condition Date
aparkermp	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.	9/16/2024

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

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

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

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

QUESTIONS

Action 389295

QUESTIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	389295
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415754364
Incident Name	NAPP2415754364 CARBON VALLEY 25 FEDERAL COM #007H @ 30-015-38060
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-38060] CARBON VALLEY 25 FEDERAL COM #007H

Location of Release Source	
Site Name	Carbon Valley 25 Federal Com #007H
Date Release Discovered	04/16/2013
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,050
What is the estimated number of samples that will be gathered	11
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/04/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sampling plan was sent to Brittany.Hall@emnrd.nm.gov as requested. Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.898379, -104.239750

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

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

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

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

CONDITIONS

Action 389295

CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	389295
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
aparkermp	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/2/2024

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

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

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

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

QUESTIONS

Action 389301

QUESTIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	389301
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415754364
Incident Name	NAPP2415754364 CARBON VALLEY 25 FEDERAL COM #007H @ 30-015-38060
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-38060] CARBON VALLEY 25 FEDERAL COM #007H

Location of Release Source	
Site Name	Carbon Valley 25 Federal Com #007H
Date Release Discovered	04/16/2013
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,050
What is the estimated number of samples that will be gathered	11
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/07/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sampling plan was sent to Brittany.Hall@emnrd.nm.gov as requested. Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.898379, -104.239750

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

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

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

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

CONDITIONS

Action 389301

CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	389301
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
aparkermp	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/2/2024

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

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

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

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

QUESTIONS

Action 390097

QUESTIONS

ı	Operator:	OGRID:
ı	Murchison Oil and Gas, LLC	15363
ı	7250 Dallas Parkway	Action Number:
ı	Plano, TX 75024	390097
ı		Action Type:
ı		[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415754364
Incident Name	NAPP2415754364 CARBON VALLEY 25 FEDERAL COM #007H @ 30-015-38060
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-38060] CARBON VALLEY 25 FEDERAL COM #007H

Location of Release Source	
Site Name	Carbon Valley 25 Federal Com #007H
Date Release Discovered	04/16/2013
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	200
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	10/08/2024
Time sampling will commence	11:00 AM
Please provide any information necessary for observers to contact samplers	Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.898267, -104.239746

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

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

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

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

CONDITIONS

Action 390097

CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	390097
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created B		Condition Date
ccottrell	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/4/2024



RE: [EXTERNAL] Carbon Valley Sampling Plans

From Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Date Wed 10/2/2024 2:48 PM

Cindy Cottrell <ccottrell@jdmii.com> То

Cc Dimitry Nikanorov < Dimitry@mcnabbpartners.com>; Greg Boans < gboans@jdmii.com>; Luke Pumphrey <lpumphrey@jdmii.com>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD < RosaM.Romero@emnrd.nm.gov>

Cindv.

The sampling plans for the Carbon Valley 25 Federal Com #007 (nAPP2415754364), Carbon Valley 31 Federal Com #001H (nAPP2415757870), and Carbon Valley 26 Federal Com #001H (nAPP2415757665) are approved with the following conditions:

- All aliquots of the 5-point composite samples must be collected from areas where the liner has been removed. Any aliquots collected from soil that is still underneath portions of the liner that remains in place will not be accepted nor will the composite samples that contain those aliquots will not be accepted.
- Site maps must illustrate where the aliquots for each 5-point composite sample were collected
- Horizontal delineation must be completed.
- Any deferral requests will be reviewed on a case-by-case basis and must meet the requirements of a deferral pursuant to 19.15.29.12 C.(2) NMAC.

Do you anticipate the sampling taking both days to complete? The sampling notifications were submitted for the same times for each site on 10/4 and 10/7.

Thank you,

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

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

From: Cindy Cottrell <ccottrell@jdmii.com> Sent: Wednesday, October 2, 2024 11:09 AM

To: Hall, Brittany, EMNRD < Brittany. Hall@emnrd.nm.gov>

Cc: Dimitry Nikanorov <Dimitry@mcnabbpartners.com>; Greg Boans <gbooks@jdmii.com>; Luke Pumphrey

<lpumphrey@jdmii.com>

Subject: [EXTERNAL] Carbon Valley Sampling Plans

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

Hi Brittany,

The sampling plans for the Carbon Valley 25-7, 31-1 and 26-1 are attached for your review and approval. If everything looks good to you, we will send sampling notifications for Friday or next Monday.

Thank you,



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

Appendix B

Well Log





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

WELL OWN	ER NAME(S)				PHONE (OPTI	ONAL)		
KEY LIVEST			•		•		·		
WELL OWN	ER MAILING	G ADDRESS				CITY		STATE	Z)
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LICENSE NU	MBER	NAME OF LICENSED	DRILLER			eger gerker er	NAME OF WELL DR	ILLING COMPANY	5
WD-1058		DON KUEHN III					KEYS DRILLING &	PUMP SERVICE IN	C. 1
DRILLING S	TARTED	DRILLING ENDED	DEPTH OF COMPLET	ED WELL (FT)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FT	")
09-12-16		09-13-16	200		200		55		
				元	over			VEL IN COMPLETED WI	ELL (
COMPLETE) WELL IS:	ARTESIAN	DRY HOLE	SHALLOW (UNC	ONFINED)		55		
DRILLING F	LUID:	AIR	✓ MUD	ADDITIVES – SPI	ECIFY:				
DRILLING M	IETHOD:	Z ROTARY	HAMMER	CABLE TOOL	ОТНЕ	R - SPECIFY:			
DEPTH	(feet bgl)	BORE HOLE		ERIAL AND/OR	C	ASING	CASING	CASING WALL	
FROM	ТО	DIAM		ADE asing string, and	CON	NECTION	INSIDE DIAM.	THICKNESS	
		(inches)		ns of screen)	1 T	TYPE	(inches)	(inches)	(i
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-2	160	7-7/8"	P	VC	S	PLINE	4-1/2"	SCH40	ļ
160	200	7-7/8"	P	VC	S	PLINE	4-1/2"	SCH40	\perp
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DEPTH	(feet bgl)	BORE HOLE	LIST AN	INULAR SEAL M	ATERIAL A	AND	AMOUNT	METHO	DD O
FROM	ТО	DIAM. (inches)	GRAVEL I	PACK SIZE-RANC	E BY INTE	ERVAL	(cubic feet)	PLACEI	
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R OSE INTER E NUMBER		101-		POD NUMBER	. t	- 1	WELL RECORD	& LOG (Version 06/0	08/20

S 1.3 0								7. <u>9</u> 1. 11 .		
	DEPTH (FROM	feet bg!) TO	THICKNESS (feet)	INCLUDE WAT	ER-BEARING CA	TERIAL ENCOUN VITIES OR FRAC to fully describe:	TURE ZONE	S BEA	ATER RING? S/NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
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	20	40	20	***-	BROWN	CLAY		□Y	■N	
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၁၁	90	130	40		RED SAN				■ N	
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3.	DON KUEHN	ш								
	THE UNDE	RSIGNED I	HEREBY CERTIF	IES THAT, TO THE E	BEST OF HIS OR	HER KNOWLEDO	E AND BELI	EF, THE FORE	GOING IS	A TRUE AND
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LOCATION 165-07E-

Appendix C

Laboratory Reports and Chain-Of-Custody Documents





July 01, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 25-7

Enclosed are the results of analyses for samples received by the laboratory on 06/25/24 13:22.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 06/25/2024 Sampling Date: 06/24/2024

Reported: 07/01/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 01 0-2 (H243779-01)

DTEV 0021D

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2024	ND	1.97	98.3	2.00	5.13	
Toluene*	<0.050	0.050	06/30/2024	ND	1.93	96.3	2.00	4.90	
Ethylbenzene*	<0.050	0.050	06/30/2024	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	06/30/2024	ND	5.76	95.9	6.00	4.69	
Total BTEX	<0.300	0.300	06/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/28/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2024	ND	202	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	06/28/2024	ND	184	92.0	200	8.60	
EXT DRO >C28-C36	<10.0	10.0	06/28/2024	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 06/25/2024 Sampling Date: 06/24/2024

Reported: 07/01/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 01 2-4 (H243779-02)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2024	ND	1.97	98.3	2.00	5.13	
Toluene*	<0.050	0.050	06/30/2024	ND	1.93	96.3	2.00	4.90	
Ethylbenzene*	<0.050	0.050	06/30/2024	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	06/30/2024	ND	5.76	95.9	6.00	4.69	
Total BTEX	<0.300	0.300	06/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/28/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2024	ND	202	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	06/28/2024	ND	184	92.0	200	8.60	
EXT DRO >C28-C36	<10.0	10.0	06/28/2024	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

	(575) 393	(575) 393-2326 FAX (575) 393-2476	393-2476								3					SISA IVNV		REQUEST	TZ						
Company Name: McNabb Partners	Nabb Partners									a	BILL 10					- TANK	1.5	- 1	1 5				1	+	
Project Manager: Dimitry Nikanorov	nitry Nikanorov							_	P.O. #:	1														_	
Address: 5014 W Carlsbad Hwy	rlsbad Hwy							-	Compa	any: N	Company: McNabb Partners	artners						_							
City: Hobbs		State: NM	Zip: 88220	ျ				_	Attn:									_						_	
	9174976890	Fax#:							Address:	SS:					-			_						_	_
		Pro	Project Owner: Murchison Oil & Gas City:	N :18	urc	hison O	90	Gas (City:		Y							_					_	_	
Project Name: Carbon Valley 25-7	on Valley 25-7				- 1			-	State:		Zip:							_						_	
Project Location: Eddy Co, NM	Idv Co, NM								Phone #:	*								_						_	
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Sampler Name: Chris Turner, Dimitry Nikanorov	s Turner, Dimitry N	likanorov	-	1	1		VIGTAL		ago.	DDESERV		SAMPLING				,		_						_	_
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duzheh	Sam	Sample I.D.	(G)RAB OR (C)O	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL OTHER :	DATE		TIME	Chloride	TPH	BTEX									
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PLASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including most in registering consequently the client for the analyses. All claims including whout limitation, business interruptions, loss of use, or loss of polits incurred by cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of polits incurred by cardinal within 30 days after completion of the applicable service. In no event shall consider such claims to based upon any of the above stated reasons or otherwise.	y and Damages. Cardii made in writing and rec	nal's liability and client's elved by Cardinal with	s exclusive in 30 days a	reme fler	dy to	r any clai	the a	rising was	hether ble servi	based ice. In	in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims no event shall Cardinal be liable for incidental or consequental damages, including without limited regardless of whether such claim is based upon any of the above stated reasons or otherwise.	or tort, sho all Cardin of whether	all be limite nal be liable r such clain	d to the for inci n is base	amount dental or ed upon :	paid by to consequence any of the	he client i uental dan e above s	it for the analyses. All claims including triose for regigence and any union case inserved stamages, including without limitation, business interruptions, loss of use, or loss of profits incurred by a stated reasons or otherwise.	analyses ncluding asons or	without otherw	limitati ise.	on, bus	iness i	nterrup	ptions.
clerit, its subsidiaries, affiliates of successors arising too or or immore or ing. Relinquished By: Dec. 75.24 Received By: Time; 3.3.3	milates or successors	Dyte:25	22 Ree	Received By	od E			1	1	M		All	Yerbal Result: □ Yes □ No Add'l Phone #: All Results are enailed. Please provide Email address: dmitrynikanorov1@gmail.com, dimitry@mcnabbpartners.com Indrew@mcnabbpartners.com	e emaik	ailed. Pleas	ase provi	de Email	Add'I Phone #: address: dmitn	hone #:	nikano	rov1@	gmail.c	om, di	imityt	@mcna
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



August 20, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 25-7

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 08/16/2024 Sampling Date: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 02 (0-5') (H244990-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	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	73.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 02 (2') (H244990-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	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	99.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	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	82.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 02 (4') (H244990-03)

BTEX 8021B

DIEX GOZID	1119/	Kg .	Allulyzo	.u by. 511					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed 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	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	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	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keene



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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 03 (0-5') (H244990-04)

BTEX 8021B

	9,	9	7	7: :					
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	99.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	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	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 03 (2') (H244990-05)

BTEX 8021B

	<u> </u>								
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	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	81.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 03 (4') (H244990-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.21	111	2.00	6.41	
Toluene*	<0.050	0.050	08/19/2024	ND	2.33	116	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.44	122	2.00	1.93	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	7.38	123	6.00	1.14	
Total BTEX	<0.300	0.300	08/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	214	107	200	3.07	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	221	110	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

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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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: **CARBON VALLEY 25-7** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 04 (0-5') (H244990-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.21	111	2.00	6.41	
Toluene*	<0.050	0.050	08/19/2024	ND	2.33	116	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.44	122	2.00	1.93	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	7.38	123	6.00	1.14	
Total BTEX	<0.300	0.300	08/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	08/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	214	107	200	3.07	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	221	110	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	72.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.2	% 49.1-14	8						

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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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 04 (2') (H244990-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.21	111	2.00	6.41	
Toluene*	<0.050	0.050	08/19/2024	ND	2.33	116	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.44	122	2.00	1.93	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	7.38	123	6.00	1.14	
Total BTEX	<0.300	0.300	08/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	214	107	200	3.07	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	221	110	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 04 (4') (H244990-09)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.21	111	2.00	6.41	
Toluene*	<0.050	0.050	08/19/2024	ND	2.33	116	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.44	122	2.00	1.93	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	7.38	123	6.00	1.14	
Total BTEX	<0.300	0.300	08/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	214	107	200	3.07	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	221	110	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Celey D. Keene



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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: **CARBON VALLEY 25-7** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 05 (0-5') (H244990-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.21	111	2.00	6.41	
Toluene*	<0.050	0.050	08/19/2024	ND	2.33	116	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.44	122	2.00	1.93	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	7.38	123	6.00	1.14	
Total BTEX	<0.300	0.300	08/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d 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	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	214	107	200	3.07	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	221	110	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	80.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 05 (2') (H244990-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.21	111	2.00	6.41	
Toluene*	<0.050	0.050	08/19/2024	ND	2.33	116	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.44	122	2.00	1.93	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	7.38	123	6.00	1.14	
Total BTEX	<0.300	0.300	08/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	214	107	200	3.07	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	221	110	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	68.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Kreine



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: 08/13/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 05 (4') (H244990-12)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2024	ND	2.21	111	2.00	6.41	
Toluene*	<0.050	0.050	08/19/2024	ND	2.33	116	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	2.44	122	2.00	1.93	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	7.38	123	6.00	1.14	
Total BTEX	<0.300	0.300	08/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	214	107	200	3.07	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	221	110	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	79.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.6	% 49.1-14	8						

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Celey & Keene



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

ecovery.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

	Relinquished By:	7	Relinquished By:	analyses, we cause incovering when we regarded as a service. In no event shall Cardinal be liable for incidental or cor service. In no event shall Cardinal be liable for incidental or cor	PLEASE NOTE: Liability and C	5	9	00	عل		N	=\	Nr	1	The state of the s	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: Car	Project #:	Phone #: 917-497-6890	City: Hobbs	Address: 5014 W	Project Manager:	Company Name:
Delivered By: (Circle One)			OUT OF TEMANOO SO WAS DESCRIPTION	inal be liable for incidental or o	Jamages, Cardinal's liability as buse for negligence and any o	CS-05	CS-04	CS-04	CS-04	CS-03	CS-03	CS-03	CS-02	CS-02	CS-02	Sample I.D.		Dimitry Nikanorov, Andrew Parker	Eddy Co, NM	Carbon Valley 25-7		7-6890		5014 W Carlsbad Hwy	Dimitry Nikanorov	McNabb Partners
Observed Temp. °C	Date:	Times	B-16-24	consequental damages, including sance of services hereunder by C	nd client's exclusive remedy for any claim as ther cause whatsoever shall be deemed wa	(0.5)	(4')	(2")	(0.5')	(4')	(2')	(0.5')	(4")	(2")	(0.5')	I.D.		v, Andrew Parker			Project Owner:	Fax#:	State: NM		,	
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Sample Condition Cool Intact Cool Intact Aves Tyes	Keceived by.	Monday	Received By:	ages, including without limitation, business interruptions, tass of use, or loss of profes incurred or jumis, we assessment the state of the above stated reasons or otherwise varieurober by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.	PLEASE NOTE. Labelty and Damages. Cardinal's labelity and clear's exclusive remedy for any claim arising whether based in contract convex by Cardinal within 30 days after completion of the applicable converse and claims including these for notificance and any other cause whatsoever shall be deemed waived unless made in witing and received by Cardinal within 30 days after completion of the applicable.	1 ×	×	×	×	×	×	×	×	×	×	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	MAINIA	L	1 0	St	Murchison Oil&Gas Ci	_	88240 At	Co	P.O	
0		inn		tions, lass of use, or loss of provisions, lass of use, or loss of provisions any of the abo	aived by Cardinal w	×	×	×	×	×	×	×	×	×	×	ACID BASE: ICE / COOL OTHER:	T TOLING	Pax #:	Phone #: 5/5-/U5-U50/	State: NM	SD	Address: 5325 Sierra Visia	Attn: Greg Boans	Company: 1	P.O. #:	BILL
(Initials)		Marco	1	above stated rea	Whin 30 days after	8/13/24	8/13/24	8/13/24	8/13/24	8/13/24	8/13/24	8/13/24	8/13/24	8/13/24	8/13/24	DATE		SAMPLING	-/nan-an/	Zip: 00220	30	5 Sierra Vis	oans	Murchison Oil & Ga		710
Turperound lime: 48 hours Thermometes ID #140 Correction Factor -0.5°C		REMARKS:	All Results are emailed. Please provide Email address:	sons or otherwise	completion of the	4 13:30	13:20	13:10	13:00	12:50	12:40	12:30	12:20	12:10	12:00	TIME		ING				ia Di,	,	Oil & Gas		1
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

(575)	(575) 393-2326 FAX (575) 393-2476	93-2476	"	1	ı	ı	1	4	ı	١	ď	1	3		١	١			ANA	SISAT		REQUEST		
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	Dimitry Nikanorov							12	P.O. #:	. #													36	
ddress: 5014 W Carlsbad Hwy	Isbad Hwy							_	Company:	pa	ny:		Murchison Oil & Gas	Oil & Gas										
0	State: NM		Zip:	88	88240			_	Attn		Sie	Attn: Greg Boans	ans											
344	90 Fax#:							Ļ	Add	res	S	5325	Address: 5325 Sierra Vista Dr	sta Dr.										
	Project Owner:	Owner:	Z	urch	Murchison Oil&Gas	01	300		City		Carl	City: Carlsbad	d											
ime:	Carbon Valley 25-7							-	State: NM	e.	Z	N	Zip: 88220											
≃ ।	Eddy Co. NM								Pho	ne	*	575	Phone #: 575-706-0667											
1	nito Nikanorov Andrew Pa	arker							Fax #:	#						-								
ampler Name: Dir	Dimitry Nikanorov, Aliaiew Faiker	al ver	4	1	1	MATRIX		L	7	PRESERV	SE	2	SAMPLING	LING										
Lab I.D.	Sample I.D.		RAB OR (C)OMP.	OUNDWATER	ASTEWATER	IL	:	UDGE	HER:	ID/BASE:	E/COOL	THER:			РН	hloride	TEX				,			
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NEASE NOTE: Liability and Damago malyses. All claims including those to	PLEASE NOTE: Lability and Damages. Condmarts fability and cleant's exclusive remedy for any claim analog whether based in conflact or brt. shall be limited to the amount paid by the clearlit for the policiable reads and confidence and any other causes whatsoever shall be deemed valved unless made in writing and received by Cardmal witten 30 days after completion of the applicable reads and clearly globes for registerior and any other causes whatsoever shall be deemed valved unless made in writing and received by Cardmal witten 30 days after completions. It is subsidiaries.	emedy for any er shall be de-	claim a emed w	nising (Africa Africa Africa San Anniesta	r base made i	din co	ntract ng and bons, I	or tari recei	use b	Card	smal wi	arising whether based in contract or birt, shall be filmited to the armount pac- maiwed unless made in writing and received by Cardinal within 30 days after particulation, business interruptions, loss of use, or loss of profits incurred by Irribation, business interruptions, loss of use, or loss of an active shallot or	unt paid by the client for the ye after completion of the a ed by client, its subsidiaries, also reasons or otherwise.	the applicables.									
Relinquished By:	restand to the performance of services hearwides (05 Car	Received By:	eive	Received By	BY:	W 188	The same	1	1	de			Verbal Result:	s are e mcnab	☐ Yés mailed. F bpartners	Pleas ers.co	m, andr	Add'de Emew@m	Add'l Phone #: le Email address w@mcnabbpart	e#: ress: partners	com, I	Werbal Result: □ Yes □ No. Add'l Phone #: All Results are emailed. Please provide Email address: dimitry@mcnabbpartners.com, andrew@mcnabbpartners.com, laura@mcnabbpartners.com REMARKS:	partners.com
Delivered By: (Circle One) Sampler - UPS - Bus - Ott	ircle One) Observed Temp. °C Bus - Other: Corrected Temp. °C	emp. °C	S	40	C s	Sample Condition Cool Intact Pres Pres	9 1 8 C	D and	tion		1 9	(Init	CHECKED BY: (Initials)	Turnaround Time: 48 hours Thermometer ID #140 Correction Factor -0.6°C	nd Tim 8 hours ter ID Factor	#140 -0.6°C	Star	Standard	M	DD Bac	Bacteria (only) Sool Infact Yes Yes	o s y Sa	Bacteria (only) Sample Condition cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C	p, °C
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Page 16 of 16



September 24, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 25-7

Enclosed are the results of analyses for samples received by the laboratory on 09/20/24 12:48.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

A ... - b ... - d D. .. 711

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 01 0 FT (H245736-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.09	105	2.00	2.25	
Toluene*	<0.050	0.050	09/20/2024	ND	2.04	102	2.00	2.32	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.33	105	6.00	2.57	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/23/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	220	110	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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: **CARBON VALLEY 25-7** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Shalyn Rodriguez

Project Location: MURCHISON EDDY CO, NM

Sample ID: CS - 04 0.5 FT (H245736-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.09	105	2.00	2.25	
Toluene*	<0.050	0.050	09/20/2024	ND	2.04	102	2.00	2.32	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.33	105	6.00	2.57	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/23/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	220	110	200	2.49	
DRO >C10-C28*	22.6	10.0	09/20/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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

ecovery.

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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Celeg D. Freene

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(ETE) 202 2226 EAY (ETE) 393-2476		
Company Name: (2/2) 393-2320 FAX (2/2) 393-2370	BILL TO	ANALYSIS REQUEST
Project Manager: 1 (1) (1) (1) (1)	P.O. #:	
Address: PASH IN CACISORD HWY	company: Murchison	
City: Who Zip: 88240	Attn: Breg Boans	
497-6890 Fax#:		
	City:	
ame: Carlory Valley	State: Zip:	
Project Location: CNX Cmxx+L	Phone #:	
Sampler Name: (A. W.) Co. (1) (a) (c)	Fax #:	
P.	MATRIX PRESERV. SAMPLING	
(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX
0FLX #	chichebilo x	×
2 CS-04 0.5AX	प्र बाधियात्र ३०	
8 8 2	ased in contract or tort, shall be limited to the amount paid by the cleent lot it due in writing and received by Cardinal within 30 days after completion of the sinterruptions, loss of use, or loss of profits accurred by client, its subsidiaria ther such claim is based upon any of the above stated reasons or otherwise there who claim is based upon any of the above stated reasons or otherwise there were contracted to the contracted to	pplicable
Relinquished By: Relinquished By: Time: Date: Received By: Received By: Received By:	Received By: Received By: Received By: Verbal Result: All Results are em Remarks: Remarks:	Verbal Result: Tyes No. Add'! Phone #: All Results are emailed. Please provide Email address: Think the record to Restaurant Commentaries.
Delivered By: (Circle One) Observed Temp. °C	e Condition CH	Standard B
rer: Corrected Jemp. 85.4	Cool Intact (Initials) Thermometer ID #140 Correction Factor -0.8°C	18 HZ Byes yes



October 18, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 25-7

Enclosed are the results of analyses for samples received by the laboratory on 10/04/24 16:14.

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/ga/lab accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Reported: 18-Oct-24 16:54

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS-01 0'	H246076-01	Soil	04-Oct-24 08:50	04-Oct-24 16:14
FS-02 0'	H246076-02	Soil	04-Oct-24 08:52	04-Oct-24 16:14
FS-03 0'	H246076-03	Soil	04-Oct-24 09:08	04-Oct-24 16:14
FS-04 0'	H246076-04	Soil	04-Oct-24 09:15	04-Oct-24 16:14
FS-05 0'	H246076-05	Soil	04-Oct-24 09:09	04-Oct-24 16:14
FS-06 0'	H246076-06	Soil	04-Oct-24 09:24	04-Oct-24 16:14
FS-07 0'	H246076-07	Soil	04-Oct-24 09:36	04-Oct-24 16:14
FS-08 0'	H246076-08	Soil	04-Oct-24 09:43	04-Oct-24 16:14
FS-09 0'	H246076-09	Soil	04-Oct-24 09:50	04-Oct-24 16:14
FS-10 0'	H246076-10	Soil	04-Oct-24 10:02	04-Oct-24 16:14
FS-11 0'	H246076-11	Soil	04-Oct-24 10:02	04-Oct-24 16:14

10/18/24 - Client changed depths on all samples (see COC). This is the revised report and will replace the one sent on 10/10/24.

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Celey D. Keine



Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Reported: 18-Oct-24 16:54

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

FS-01 0' H246076-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	4100731	НМ	07-Oct-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JН	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		102 %	71.5	-134	4100504	ЈН	07-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100508	MS	07-Oct-24	8015B	
DRO >C10-C28*	664		10.0	mg/kg	1	4100508	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	209		10.0	mg/kg	1	4100508	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			92.1 %	48.2	-134	4100508	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			99.5 %	49.1	-148	4100508	MS	07-Oct-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Reported: 18-Oct-24 16:54

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

FS-02 0' H246076-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	4100731	HM	07-Oct-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5	-134	4100504	JH	07-Oct-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100508	MS	07-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4100508	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4100508	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			88.5 %	48.2	-134	4100508	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			75.2 %	49.1-	-148	4100508	MS	07-Oct-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Reported:

18-Oct-24 16:54



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

Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

FS-03 0' H246076-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	4100731	HM	07-Oct-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		104 %	71.5	-134	4100504	JH	07-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100508	MS	07-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4100508	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4100508	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			87.4 %	48.2	-134	4100508	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			75.0 %	49.1	-148	4100508	MS	07-Oct-24	8015B	

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Celeg D. Keene



Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Project Manager: DIMITRY NIKANOROV Fax To: (575) 391-8484 Reported: 18-Oct-24 16:54

FS-04 0' H246076-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	4100731	НМ	07-Oct-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JН	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	ЈН	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		101 %	71.5	-134	4100504	ЈН	07-Oct-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			88.3 %	48.2	-134	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			81.4 %	49.1	-148	4100718	MS	07-Oct-24	8015B	

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Celey D. Keine



Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Reported: 18-Oct-24 16:54

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

FS-05 0' H246076-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	400		16.0	mg/kg	4	4100731	HM	07-Oct-24	4500-Cl-B	
Volatile Organic Compounds h	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JН	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		103 %	71.5	-134	4100504	ЈН	07-Oct-24	8021B	
Petroleum Hydrocarbons by G	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			92.7 %	48.2	-134	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			87.1 %	49.1	-148	4100718	MS	07-Oct-24	8015B	

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Celey D. Keine



Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Project Manager: DIMITRY NIKANOROV Fax To: (575) 391-8484 Reported: 18-Oct-24 16:54

FS-06 0' H246076-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	4100731	HM	07-Oct-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JН	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-	134	4100504	JH	07-Oct-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			87.5 %	48.2-	134	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			81.6 %	49.1-	148	4100718	MS	07-Oct-24	8015B	

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Celey D. Keene



Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Reported: 18-Oct-24 16:54

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

FS-07 0' H246076-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	544		16.0	mg/kg	4	4100731	HM	07-Oct-24	4500-Cl-B	
Volatile Organic Compounds h	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		99.0 %	71.5	-134	4100504	ЈН	07-Oct-24	8021B	
Petroleum Hydrocarbons by G	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			86.8 %	48.2	-134	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			82.7 %	49.1	-148	4100718	MS	07-Oct-24	8015B	

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Celey D. Keine



Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Reported: 18-Oct-24 16:54

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

FS-08 0' H246076-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	4100731	НМ	07-Oct-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JН	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		104 %	71.5	-134	4100504	ЈН	07-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
DRO >C10-C28*	183		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	137		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			87.1 %	48.2	-134	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			84.4 %	49.1	-148	4100718	MS	07-Oct-24	8015B	

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Celey D. Keine



Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Project Manager: DIMITRY NIKANOROV Fax To: (575) 391-8484 Reported: 18-Oct-24 16:54

FS-09 0' H246076-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	4100731	HM	07-Oct-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)		104 %	71.5	-134	4100504	JH	07-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
DRO >C10-C28*	2760		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	1550		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			92.1 %	48.2	-134	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			129 %	49.1	-148	4100718	MS	07-Oct-24	8015B	

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Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Reported: 18-Oct-24 16:54

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

FS-10 0' H246076-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	4100731	HM	07-Oct-24	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JН	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5	-134	4100504	ЛН	07-Oct-24	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
DRO >C10-C28*	736		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	314		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			95.6 %	48.2	-134	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			98.7 %	49.1	-148	4100718	MS	07-Oct-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

MC NABB SERVICES P. O. BOX 5753 HOBBS NM, 88240 Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Reported: 18-Oct-24 16:54

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

FS-11 0' H246076-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	304		16.0	mg/kg	4	4100731	HM	07-Oct-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4100504	JH	07-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		106 %	71.5	-134	4100504	ЈН	07-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
DRO >C10-C28*	2170		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
EXT DRO >C28-C36	886		10.0	mg/kg	1	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctane			92.6 %	48.2	-134	4100718	MS	07-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			122 %	49.1	-148	4100718	MS	07-Oct-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Reported: 18-Oct-24 16:54

Project Manager: DIMITRY NIKANOROV Fax To: (575) 391-8484

Inorganic Compounds - Quality Control Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4100731 - 1:4 DI Water										
Blank (4100731-BLK1)				Prepared &	: Analyzed:	07-Oct-24				
Chloride	ND	16.0	mg/kg							
LCS (4100731-BS1)				Prepared &	Analyzed:	07-Oct-24				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4100731-BSD1)				Prepared &	Analyzed:	07-Oct-24				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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%REC

Limits

88.2-128

71.5-134

3.48

16.3

107

99.2

RPD

Analytical Results For:

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

Analyte

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

Project: CARBON VALLEY 25-7

Spike

Level

Project Number: 20130416-MURCHINSON- CARBON

Source

Result

%REC

Reported: 18-Oct-24 16:54

RPD

Limit

Notes

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

6.45

0.0496

0.150

mg/kg

mg/kg

rmaryte	Result	Limit	Cints	Level	resurt	70ICLC	Limits	KI D	Limit	110103
Batch 4100504 - Volatiles										
Blank (4100504-BLK1)				Prepared: 0	5-Oct-24 A	nalyzed: (7-Oct-24			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			
LCS (4100504-BS1)				Prepared: 0	5-Oct-24 A	nalyzed: (7-Oct-24			
Benzene	2.05	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.06	0.050	mg/kg	2.00		103	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89-129			
o-Xylene	2.07	0.050	mg/kg	2.00		104	86.1-125			
Total Xylenes	6.22	0.150	mg/kg	6.00		104	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.1	71.5-134			
LCS Dup (4100504-BSD1)				Prepared: 0	5-Oct-24 A	nalyzed: 0	07-Oct-24			
Benzene	2.09	0.050	mg/kg	2.00		105	82.8-130	2.15	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	2.04	15.9	
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	85.9-128	2.98	16	
m,p-Xylene	4.29	0.100	mg/kg	4.00		107	89-129	3.36	16.2	
o-Xylene	2.15	0.050	mg/kg	2.00		108	86.1-125	3.71	16.7	

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6.00

0.0500

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Analytical Results For:

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

Project: CARBON VALLEY 25-7

Project Number: 20130416-MURCHINSON- CARBON

Reported: 18-Oct-24 16:54

Project Manager: DIMITRY NIKANOROV

Fax To: (575) 391-8484

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4100508 - General Prep - Organics										
Blank (4100508-BLK1)				Prepared: (05-Oct-24 A	.nalyzed: 0	7-Oct-24			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.8	48.2-134			
Surrogate: 1-Chlorooctadecane	37.7		mg/kg	50.0		75.4	49.1-148			
LCS (4100508-BS1)				Prepared: (05-Oct-24 A	nalyzed: 0	7-Oct-24			
GRO C6-C10	150	10.0	mg/kg	200		75.1	66.4-123			
DRO >C10-C28	184	10.0	mg/kg	200		92.2	66.5-118			
Total TPH C6-C28	335	10.0	mg/kg	400		83.6	77.6-123			
Surrogate: 1-Chlorooctane	44.3		mg/kg	50.0		88.7	48.2-134			
Surrogate: 1-Chlorooctadecane	44.7		mg/kg	50.0		89.5	49.1-148			
LCS Dup (4100508-BSD1)				Prepared: (05-Oct-24 A	.nalyzed: (7-Oct-24			
GRO C6-C10	182	10.0	mg/kg	200		91.1	66.4-123	19.3	17.7	QR-04
DRO >C10-C28	183	10.0	mg/kg	200		91.7	66.5-118	0.523	21	
Total TPH C6-C28	366	10.0	mg/kg	400		91.4	77.6-123	8.87	18.5	
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		99.9	48.2-134			
Surrogate: 1-Chlorooctadecane	42.6		mg/kg	50.0		85.3	49.1-148			
Batch 4100718 - General Prep - Organics										
Blank (4100718-BLK1)				Prepared &	k Analyzed:	07-Oct-24				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.5	48.2-134			
Surrogate: 1-Chlorooctadecane	44.8		mg/kg	50.0		89.7	49.1-148			

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%REC

Limits

RPD

Analytical Results For:

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

Analyte

Project: CARBON VALLEY 25-7

Spike

Level

Project Number: 20130416-MURCHINSON- CARBON

Source

Result

%REC

Reported: 18-Oct-24 16:54

RPD

Limit

Notes

Project Manager: DIMITRY NIKANOROV Fax To: (575) 391-8484

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

LCS (4100718-BS1)				Prepared & Anal	yzed: 07-Oct-24	ļ		
GRO C6-C10	211	10.0	mg/kg	200	106	66.4-123		
DRO >C10-C28	205	10.0	mg/kg	200	103	66.5-118		
Total TPH C6-C28	416	10.0	mg/kg	400	104	77.6-123		
Surrogate: 1-Chlorooctane	52.2		mg/kg	50.0	104	48.2-134		
Surrogate: 1-Chlorooctadecane	47.7		mg/kg	50.0	95.3	49.1-148		
LCS Dup (4100718-BSD1)				Prepared & Anal	yzed: 07-Oct-24	ŀ		
GRO C6-C10	208	10.0	mg/kg	200	104	66.4-123	1.34	17.7
DRO >C10-C28	202	10.0	mg/kg	200	101	66.5-118	1.52	21
Total TPH C6-C28	410	10.0	mg/kg	400	103	77.6-123	1.43	18.5
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0	104	48.2-134		
Surrogate: 1-Chlorooctadecane	47.6		mg/kg	50.0	95.2	49.1-148		

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Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

*** 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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished by acceptance of the Relinquished by: Relinquished by: Relinquished By: Circle One) Sampler - UPS - Bus - Other:	Lab I.D. Haywork William Indian and and and and and and and and and a	Project Manager: Dimity Address: 0n-Filt City: Phone #: Project #: Project Name: 20/304/6/14 Project Location: (Mf box) Sampler Name: (Mf 8+9)	Company Name: W
out of or related to the performance of services. Date: Time: Date: Time: Corrected Sus - Other: Corrected	Sample I.D. FS-01 FS-03 FS-08 FS-08 FS-08 FS-09 FS-09 FS-09 FS-09 FS-00 FS-	Project Manager: Dimitry W: Kawaras Address: On-File State: Zip: City: Fax #: Project #: Project Owner: Project Name: 20/304/6 inurchizan-curponvality 25- Project Location: (Mr Bon Valley 25-7 Sampler Name: Christon Valley 25-7	
Temp. °C 7 Cool Intact Cool Intact Cool Interest Correction Factor a Correction Factor a Correction Factor a Cool Intact Cool Intact Cool Intact Cool Interest Cool Intact Cool Interest Cool Intere	G) (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER	HE	
CHECKED BY: (Injitials) The	Bad to the amount par and to the amount par and on the amount par and continue to the party after	Attn: Zip: City: State: Zip: Phone #: Fax #: SAMPLING SAMPLING SAMPLING	BILL TO
Normal Comments State of the Correction Factor ACC - Correction Factor ACC - Correction Factor ACC - C	> Chloride	ROTDROTMAN) enzene)	
No Add Phone #: Verbal Result: Yes No Add Phone #: Verbal Result: Yes No Add Phone #: Verbal Result: Yes No Add Phone #: All Results are emailed. Please provide Email address: REMARKS: Lesternet Result Result	* STEY LB	enzene)	ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Released to Imaging: 10/25/2024 10:52:14 AM

Page 19 of 20

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



BILL TO ANAL P.O. #: PO, O #: PO Secretary Secre	Relinquished By: Delivered By: (Circle One)	ambjens, All claims including thinks for regigiptions and sanctice. In no event shall Cardinal he liable for incidental affiliation or successors, "rings object or related to the port Rellinguished St."	PLEASE NOTE: Landilly and Dannages C	11 75-11	Haylughb	Sampler Name: (1)	Project Location: Lu	Project Name: 29/504	Project #:	Phone #:	City:	Address: On-File	Project Manager: D'mitry Nikanow	Company Name: Mc Nahl Portners	(575)
BILL TO ANAL P. O. #: 70/50/6 ************************************		la for incidental or consequented damages, including lated to the performance of services bereader by Pade:	Sudinal's liability and client's exclusive remady for a	O' 3.564	Sample I.D.	Stopher Twice	for valley 25-7	16 Morchison-curbonva	Project Owne	Fax#:		C	ity Nikanovov	the portners	(575) 393-2326 FAX (575) 393-2476
ANAL	eceived By	quithout implication, business interruptions, custines, regardless of whether such claim Received By:	my down arising whether based in contract	*	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL			16726-7H	п		Zip:				476
ANAL	8	toss of use, or loss of profile incurred by its based _ ~n any of the above stated.	or loct, shall be leading to the amount or	· ×	ACID/BASE: ICE / COOL OTHER :	ESERV.	Phone #:		City:	Address:	Attn: Divide of Come Made	Company: McMabo	P.O. #:20/50/16 marching	BILL TO	
X TPH (GROT DROT) MRO) X TPH (GROT DROT) MRO) X BT EX (Benzent) ANAL Standard Sta	REMARKS: Turnaround Tim	vacors or otherwise. Verbal Result: All Results are e		10:02							anthers any	Butvas	ALGERAN MARCHES		
ANALYSIS REQUIRED IN A CONTRACT COOL Intact Cool Intac		☐ Yes ☐ No		X			ro	+p	Ri	,)			_		
UEST TLO TUP 1/24 Sample Condition Observed Temp. °C	Sacteria (only) Sactoria (only	Add'I Phone #:												ANALYSIS REQUEST	



October 10, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 25-7

Enclosed are the results of analyses for samples received by the laboratory on 10/08/24 10:50.

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/ga/lab accred certif.html.

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

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

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: G - 1 (0.5') (H246092-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.18	109	2.00	2.09	
Toluene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	2.77	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.11	106	2.00	3.59	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.28	105	6.00	3.61	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/08/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	1910	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	1100	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MURCHISON EDDY CO, NM

ma/ka

Sample ID: G - 1 (2') (H246092-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.18	109	2.00	2.09	
Toluene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	2.77	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.11	106	2.00	3.59	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.28	105	6.00	3.61	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	10/08/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	19.9	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MURCHISON EDDY CO, NM

mg/kg

Sample ID: G - 1 (4') (H246092-03)

BTEX 8021B

DILX GOZID	mg/ kg		Allulyzeu by. 311						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.18	109	2.00	2.09	
Toluene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	2.77	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.11	106	2.00	3.59	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.28	105	6.00	3.61	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 % 71.5-13		4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/08/2024	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	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MURCHISON EDDY CO, NM

Sample ID: G - 2 (0.5') (H246092-04)

RTFY 8021R

BIEX 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	10/08/2024	ND	2.18	109	2.00	2.09	
Toluene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	2.77	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.11	106	2.00	3.59	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.28	105	6.00	3.61	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/08/2024	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	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	2760	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	1030	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

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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: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: G - 2 (2') (H246092-05)

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	10/08/2024	ND	2.18	109	2.00	2.09	
Toluene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	2.77	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.11	106	2.00	3.59	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.28	105	6.00	3.61	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
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	10/08/2024	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	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	39.1	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	30.6	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

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Analytical Results For:

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

(0.3) 555 5.

mg/kg

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil
Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MURCHISON EDDY CO, NM

Sample ID: G - 2 (4') (H246092-06)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	1.96	97.9	2.00	5.33	
Toluene*	<0.050	0.050	10/08/2024	ND	2.00	99.9	2.00	5.78	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.01	100	2.00	5.74	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	5.99	99.8	6.00	6.04	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106% 71.5-13		4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/08/2024	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	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MURCHISON EDDY CO, NM

Sample ID: G - 3 (0.5') (H246092-07)

BTEX 8021B

	979		7,=5 = 75						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	1.96	97.9	2.00	5.33	
Toluene*	<0.050	0.050	10/08/2024	ND	2.00	99.9	2.00	5.78	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.01	100	2.00	5.74	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	5.99	99.8	6.00	6.04	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 % 71.5-1.		4						
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	10/08/2024	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	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	23.0	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey & Keene



10/07/2024

Analytical Results For:

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

Received: 10/08/2024 Sampling Date:

Reported: 10/10/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: G - 3 (2') (H246092-08)

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	10/08/2024	ND	1.96	97.9	2.00	5.33	
Toluene*	<0.050	0.050	10/08/2024	ND	2.00	99.9	2.00	5.78	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.01	100	2.00	5.74	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	5.99	99.8	6.00	6.04	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/08/2024	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	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: G - 3 (4') (H246092-09)

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	10/08/2024	ND	1.96	97.9	2.00	5.33	
Toluene*	<0.050	0.050	10/08/2024	ND	2.00	99.9	2.00	5.78	
Ethylbenzene*	< 0.050	0.050	10/08/2024	ND	2.01	100	2.00	5.74	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	5.99	99.8	6.00	6.04	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
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	10/08/2024	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	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	29.8	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey & Keine



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: G - 4 (0.5') (H246092-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	1.96	97.9	2.00	5.33	
Toluene*	<0.050	0.050	10/08/2024	ND	2.00	99.9	2.00	5.78	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.01	100	2.00	5.74	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	5.99	99.8	6.00	6.04	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/08/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: G - 4 (2') (H246092-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	1.96	97.9	2.00	5.33	
Toluene*	<0.050	0.050	10/08/2024	ND	2.00	99.9	2.00	5.78	
Ethylbenzene*	< 0.050	0.050	10/08/2024	ND	2.01	100	2.00	5.74	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	5.99	99.8	6.00	6.04	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/08/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	26.9	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

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Celey & Keene



10/07/2024

Analytical Results For:

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

Received: 10/08/2024 Sampling Date:

Reported: Sampling Type: Soil 10/10/2024

Project Name: **CARBON VALLEY 25-7** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: G - 4 (4') (H246092-12)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	1.96	97.9	2.00	5.33	
Toluene*	<0.050	0.050	10/08/2024	ND	2.00	99.9	2.00	5.78	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.01	100	2.00	5.74	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	5.99	99.8	6.00	6.04	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/08/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	216	108	200	1.28	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	219	109	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.4	% 49.1-14	8						

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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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

Company Name: N	McNabb Partners	u,					_		BILL	7 10						2	7		XECOLO!	Ċ
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	Dimitry Nikanorov	<					15	P.O. #:	*										_	-
Address: 5014 W C	5014 W Carlsbad Hwy						0	Com	Company:	Murchison Oil & Gas	Oil & Gas								_	_
City: Hobbs		State: NM	Zip:	0:	88240		L	Attn:	Greg Boans	oans										_
Phone #: 917-497-6890	6890	Fax #:					_	Addr	ress: 532	Address: 5325 Sierra Vista	sta Dr,									
Project #		Project Owner:	3	N	Murchison Oil&Gas	il&G	_	City:	City: Carlsbad	ā										_
ame:	Carbon Valley 25-7					1	/0	State	State: NM	Zip: 88220	0									_
ž	Eddy Co, NM						_	Phon	ne#: 575	Phone #: 575-706-0667									_	
	Dimitry Nikanoro	Dimitry Nikanorov, Auden Escajeda					_	Fax#:	#:									_	_	_
1			1	1	MA	MATRIX	1	P	PRESERV	SAMPLING	LING								_	_
FOR LAB USE DWLY			AP.					-	1										_	_
Lab I.D.	Sample I.D.	I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	ТРН	Chloride	втех					-	
Lucia	G-1	(0.5')	G				-	_	×	10/7/24	11:45	×	×	×		Т	Ħ	h	H	
1	G-1	(2")	G	ري	×	^		-	×	10/7/24	11:50	×	×	×			t	ŀ	H	ŀ
u	G-1	(4")	G	4	×	î		Н	×	10/7/24	11:55	×	×	×			r	H	H	H
CI	G-2	(0.5")	G	ω. -	×	^		_	×	10/7/24	12:00	×	×	×		Г		r	H	H
7	G-2	(2")	G	G)	×	^		Н	×	10/7/24	12:05	×	×	×	T			H	H	H
6	G-2	(4")	G	G)	×	^			×	10/7/24	12:10	×	×	×	П	T	l	t	H	
1	G-3	(0.5')	G	0	×	^			×	10/7/24	12:15	×	×	×	T	T		t	H	ŀ
X-	G-3	(2")	G	0	×	×			×	10/7/24	12:20	×	×	×	Г	Г		H	H	H
٥	G-3	(4")	0	0	×	×			×	10/7/24	12:25	×	×	×	T			H	H	ŀ
10	G-4	(0.5')	0	G 1	×	×		L		17/24	12:30	×	×	×		Г		H	H	H
PLEASE NOTE: Liability and Danages, Cardinul's liability and district, exclusive strends for any claim raising visibles based in contact or but, shall be limited to the annount paid by the claim strends on the case of the contact or but, shall be limited to the annount paid by the claim to the population of the applicable market and claims of the population of the applicable market properties of cases of the contact of the population of the applicable market claims of the population	ages. Cardinal's liability and client's exist e for nepligence and any other cause who be liable for incidental or consequental of	of dent's exclusive rends) for any cleim airisy a viente tassed in contact or lot shall be limited to the avocut paid by the sent to the first cause wathered with all dents of shall be denned, a shall be denned, a shall be denned and shall be denned by California within 30 days after completion of the other contents by cleim to the contents by cleim to support the contents by a dent to support the contents of the contents by a dent to support the contents of the contents by a dent to support the contents of the contents by a dent to support the contents by the contents and the contents by a dent to support the contents and the contents by a dent to support the contents and the contents by a dent to support the contents and the contents are contents are contents and the contents are contents.	rany d e deen mg with	med wa	arising whether bar valved unless made imitation, business	and in o	ontract ing and done, i	receive receive	tased in contract or tort, shall be limited rade in writing and received by Cardinal I ess interruptions, loss of use, or loss of p	to the amount pa within 30 days after softs incurred by	id by the client for the aser completion of the accident, its subsidiaries	as applicat	8							
Relinquished By:	ned By:	Imp. SO	0,18	Rece	Received By:		The same	A.		Sel.	Verbal Result:	are a	☐ Yes	Pleas	□ No	Add' de Em	Add'l Phone #: e Email addres:	ress:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	One)	Observed Temp. °C S.O.	J. n-	000	Sample Condition Cool Intact Pes Pes	le Co	nditi	8 9	CHECK (Init	CHECKED BY: (Initials)	Turnaround Time: 48 hours Thermometer ID #140 Correction Factor -0.6°C	d Time hours er ID	#140 #-0.6°C	Stand	Standard	×		Bacteria (only) Cool Intact Yes Yes No No	yes	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C Yes Yes No No Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

100			١			-	-			ANIA	VEIS REQUEST	TOT
Company Name: N	McNabb Partners				1.	BILL 10	+		-	AMA	MALIOIO NEGO	
Project Manager: D	Dimitry Nikanorov				P.O. #:				_			
Address: 5014 W C	5014 W Carlsbad Hwy				Company: M	Murchison Oil & Gas	& Gas		_			
0		State: NM	Zip:	88240	Attn: Greg Boans	ans						
9	0689				Address: 5325 Sierra Vista Dr.	Sierra Vista	Dr	_				
		Project Owner:	Z	Murchison Oil&Gas	City: Carlsbad						_	
ame:	Carbon Valley 25-7				State: NM Z	Zip: 88220		-				_
=	Eddy Co. NM				Phone #: 575-706-0667	706-0667						
	Dimitry Nikanorov, Auden Escajeda	Auden Escajeda			Fax #:					_		
٦			4	MATRIX	PRESERV.	SAMPLING	G	_				
Lab I.D.	Sample I.D.	.p.	(G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TPH	Chloride	втех			
I miles	G-4	(2')		×	×	10/7/24 1	12:30 X	×	×	Ħ		
1	2 0	(47)	-		×		12:35	×	×			
27	<u>ရ</u>	(4)	G	×	>	10///24			3			
PLEASE NOTE: Labblity and Damages. Cardinal's labblity and clerific socilusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligenors and any other cause whathonever shall be deemed unived univers made in writing and recoved by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligenors and any other causes whathonever shall be deemed universe in writing and recovered by Cardinal within 30 days after class shall be shall be for excitental or consequential damages, including without firmation, business sharingtons, loss of use, or loss of profits recurred by dent, it is subdictaines, services, in no event shall Cardinal be liable for excitental or consequential damages, including without firmation, business sharingtons, loss of use, or loss of profits recurred by dent, it is subdictaines, services in the cardinal be liable for excitental or consequential damages, including without profits and including the cardinal by dent, it is subdictained.	nages. Cardinal's liability and o se for negligence and any other the liable for encidental or cons	ges. Cardnal's lability and clent's exclusive remedy for any claim for negligence and any other cause whatboover shall be deemed to se lable for incidental or consequental damages, including without	ny claim deemed i without	arrang whether based in contract or fort, shall be limited to the amount paid by the client for the waived unless made in writing and received by Contrala Wittin 30 days after completion of the ap- limitation, business returnations, bose of use, or loss of profile incurred by client, it is subordiaries, initiation, business returnations, and when a loss of the above stated research of distribution.	ct or tort, shall be limited to not received by Cardinal wit s, loss of use, or loss of pro-	the amount paid by thin 30 days after confish incurred by client the above stated research	the client for the oppletion of the op-	plicable				
Relinquished By:	y: When the performance is the performance in the p	Date: Date:	Rec	Received By:	Mely	All Ve	Verbal Result: All Results are REMARKS:	e emailed. F	Verbal Result: ☐ Yes ☐ No ☐ Add'I Phone #: All Results are emailed. Please provide Email address: REMARKS:	Add'	Add" Phone #: Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °CS. AC	001	Sample Condition Cool Intact Tyes Pres	ition CHECKED BY: (Initials) es		Turnaround Time: 48 hours Thermometer ID #140 Correction Factor -0.6°C	fime: urs D #140 tor -0.6°C	Standard	×	Bacteria (only) S Cool Intact Yes Yes No No	Bacteria (only) Sample Condition Cool Intact Observed Temp. "C Yes Yes No Corrected Temp. "C



October 11, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 25-7

Enclosed are the results of analyses for samples received by the laboratory on 10/09/24 11:40.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240

Fax To: (575) 391-8484

Received: 10/09/2024 Sampling Date: 10/08/2024

Reported: 10/11/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: BS - 01 (1') (H246130-01)

BTEX 8021B	mg,	'L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	ND	2.11	106	2.00	2.19	
Toluene*	<0.050	0.050	10/09/2024	ND	2.14	107	2.00	2.40	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.13	107	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.36	106	6.00	3.52	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 77.5-12	5						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2024	ND	218	109	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	226	113	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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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: 10/09/2024 Sampling Date: 10/08/2024

Reported: Sampling Type: Soil 10/11/2024

Project Name: **CARBON VALLEY 25-7** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: WS - 01 (0-1') (H246130-02)

BTEX 8021B	mg,	'L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	ND	2.11	106	2.00	2.19	
Toluene*	<0.050	0.050	10/09/2024	ND	2.14	107	2.00	2.40	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.13	107	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.36	106	6.00	3.52	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 77.5-12	5						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2024	ND	218	109	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	226	113	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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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: 10/09/2024 Sampling Date: 10/08/2024

Reported: 10/11/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: WS - 02 (0-1') (H246130-03)

BTEX 8021B	mg	/L	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	ND	2.11	106	2.00	2.19	
Toluene*	<0.050	0.050	10/09/2024	ND	2.14	107	2.00	2.40	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.13	107	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.36	106	6.00	3.52	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 77.5-12	15						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	10/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2024	ND	218	109	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	226	113	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	18						

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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: 10/09/2024 Sampling Date: 10/08/2024

Reported: Sampling Type: Soil 10/11/2024

Project Name: **CARBON VALLEY 25-7** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: WS - 03 (0-1') (H246130-04)

BTEX 8021B	mg,	/L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	ND	2.11	106	2.00	2.19	
Toluene*	<0.050	0.050	10/09/2024	ND	2.14	107	2.00	2.40	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.13	107	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.36	106	6.00	3.52	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 77.5-12	5						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/09/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2024	ND	219	109	200	3.44	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	232	116	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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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: 10/09/2024 Sampling Date: 10/08/2024

Reported: 10/11/2024 Sampling Type: Soil

Project Name: CARBON VALLEY 25-7 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MURCHISON EDDY CO, NM

Sample ID: WS - 04 (0-1') (H246130-05)

BTEX 8021B	mg	/L	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	ND	2.11	106	2.00	2.19	
Toluene*	<0.050	0.050	10/09/2024	ND	2.14	107	2.00	2.40	
Ethylbenzene*	< 0.050	0.050	10/09/2024	ND	2.13	107	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.36	106	6.00	3.52	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 77.5-12	5						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/09/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2024	ND	219	109	200	3.44	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	232	116	200	5.26	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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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.

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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	McNabb Partners			BILL TO			,	ANALYSIS REQUEST
Project Manager:	Dimitry Nikanorov			P.O. #:				
Address: 5014 V	5014 W Carlsbad Hwy			Company: Murchison	Murchison Oil & Gas			
0		State: NM	Zip: 88240	Attn: Greg Boans				
#	917-497-6890	Fax#:		Address: 5325 Sierra Vista Dr.	Vista Dr.			
.,		Project Owner:	: Murchison Oil&Gas	city: Carlsbad				
ame:	Carbon Valley 25-7			State: NM Zip: 88220	20			
\simeq	Eddy Co, NM			Phone #: 575-706-0667	7		_	
Sampler Name:	Dimitry Nikanorov			Fax#:				
FOR LAB USE ONLY			MATRIX	PRESERV. SAM	SAMPLING	_		
Lab I.D.	Sample I.D.	l.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH	Chloride	втех	
10.0	BS-01	(1)	×	×	14:00 X	×	×	
Ŋ	WS-01	(0-1')	C 1 ×	X 10/8/24	14:05 X	×	×	
N	WS-02	(0-1')	C 1 ×	X 10/8/24	14:10 X	×	×	
U	WS-03	(0-1")	C	X 10/8/24	14:15 X	×	×	
Λ-	WS-04	(0-1')	×	X 10/8/24	14:20 X	×	×	
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Relinquished By:		Date: 9-24			Verbal Result: All Results are	e emailed. P	bs ☐ No Please provid	Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:		Date:	Received By:	Comment of the second	REMARKS:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 4-8	Sample Condition Cool Intact Yes Pres No No No	res (Initials)	Turpefround Time: 48 hours Thermometer ID #140 Correction Factor -0.6°C	ime: urs) #140 or -0.6°C	Standard	Bacteria (only) Sample Condition Cool Intact Observed Temp. *C Yes Yes No No Corrected Temp. *C

District III

<u>District I</u> 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

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

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

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

QUESTIONS

Action 394780

QUESTIONS

Op	perator:	OGRID:
	3R Operating, LLC	331569
	20405 State Highway 249	Action Number:
	Houston, TX 77070	394780
		Action Type:
		[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415754364
Incident Name	NAPP2415754364 CARBON VALLEY 25 FEDERAL COM #007H @ 30-015-38060
Incident Type	Other
Incident Status	Deferral Request Received
Incident Well	[30-015-38060] CARBON VALLEY 25 FEDERAL COM #007H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Carbon Valley 25 Federal Com #007H
Date Release Discovered	04/16/2013
Surface Owner	Federal

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	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 770 sq. ft. located inside lined tank battery containment. Stained caliche being removed and disposed of at OCD approved facility. Preparing for liner inspection.	

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

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

QUESTIONS, Page 2

Action 394780

1220 S. St Francis Dr., Santa Fe, NM 8/505 Phone:(505) 476-3470 Fax:(505) 476-3462		
QUESTI	ONS (continued	1)
Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070		OGRID:
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to	supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release		A. "Major release" determine using: thorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be s	ubmitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would	d 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 remedi actions to date in the follow-up C-141 submission. If remedial efforts have been successfully complet Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure e	ted or if the release occ	curred within a lined containment area (see Subparagraph (a) of Paragraph (5) of
I hereby certify that the information given above is true and complete to the best of my lead to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report local laws and/or regulations.	ases which may end adequately investiga	langer public health or the environment. The acceptance of a C-141 report by ate and remediate contamination that pose a threat to groundwater, surface

Name: Cindy Cottrell Title: Regulatory Coordinator

Email: ccottrell@jdmii.com Date: 06/17/2024

I hereby agree and sign off to the above statement

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

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

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

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

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

QUESTIONS, Page 3

Action 394780

QUESTIONS (continued)

Operator:	OGRID:
3R Operating, LLC	331569
20405 State Highway 249	Action Number:
Houston, TX 77070	394780
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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)	Less than or equal 25 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (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 ½ and 1 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Between ½ and 1 (mi.)	
An (non-karst) unstable area	Between ½ and 1 (mi.)	
Categorize the risk of this well / site being in a karst geology	High	
A 100-year floodplain	Between ½ and 1 (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 provide	led to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contami	ination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
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)	1120
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4310
GRO+DRO (EPA SW-846 Method 8015M)	2760
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.3
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes com, which includes the anticipated timelines for beginning and completing the remediation.	upleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date will the remediation commence	06/24/2024
On what date will (or did) the final sampling or liner inspection occur	10/08/2024
On what date will (or was) the remediation complete(d)	10/24/2024
What is the estimated surface area (in square feet) that will be reclaimed	200
What is the estimated volume (in cubic yards) that will be reclaimed	7.4
What is the estimated surface area (in square feet) that will be remediated	200
What is the estimated volume (in cubic yards) that will be remediated	7.4
These estimated dates and measurements are recognized to be the best guess or calculation	n 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 adjuste	ed 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.

District I

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

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 394780

QUESTIONS (continued)

Operator:	OGRID:
3R Operating, LLC	331569
20405 State Highway 249	Action Number:
Houston, TX 77070	394780
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement

Name: Dimitry Nikanorov

Email: dimitry@mcnabbpartners.com

Date: 10/22/2024

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.

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

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

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

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

QUESTIONS, Page 5

Action 394780

QUESTIONS (continued)

Operator: 3R Operating, LLC	OGRID: 331569	
20405 State Highway 249	Action Number:	
Houston, TX 77070	394780	
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)	
QUESTIONS		
Deferral Requests Only		
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.	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes	
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Storage tank and associated flowlines	
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2050	
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	152	
	diately under or around production equipment such as production tanks, wellheads and pipelines where on may be deferred with division written approval until the equipment is removed during other operations, or when	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.	
Enter the well API (30-) on which this deferral should be granted	30-015-38060 CARBON VALLEY 25 FEDERAL COM #007H	
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed e which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC	
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Dimitry Nikanorov Email: dimitry@mcnabbpartners.com Date: 10/22/2024	

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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, Page 6

Action 394780

QUESTIONS (continued)

Operator:	OGRID:
3R Operating, LLC	331569
20405 State Highway 249	Action Number:
Houston, TX 77070	394780
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	390097	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/08/2024	
What was the (estimated) number of samples that were to be gathered	5	
What was the sampling surface area in square feet	200	

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

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CONDITIONS

Action 394780

CONDITIONS

Operator:	OGRID:
3R Operating, LLC	331569
20405 State Highway 249	Action Number:
Houston, TX 77070	394780
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
bhall	Deferral request approved.	10/25/2024
bhall	Contamination that is left in place must be remediated when the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	10/25/2024
bhall	An application of a Micro-Blaze solution is NOT approved to be applied to the impacted areas to degrade hydrocarbons present in soil while the facility is still in use. Micro-Blaze requires water and oxygen to remediate. Water and oxygen in the soil will be reduced in the compacted soils beneath the liner. Micro-Blaze also is not an approved remediation technique for chlorides and the chloride contamination at G-3 at 2' must be addressed. The excavation and disposal (dig and haul) of the contamination has been approved in the Remediation Plan section of the C-141 and must be completed at time of facility deconstruction or plugging and abandonment, whichever comes first.	10/25/2024
bhall	The site must also be reclaimed when it is no longer reasonably needed for production or subsequent drilling activities. A reclamation report will not be accepted until reclamation of the release area is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/25/2024