



January 23, 2025

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

RE: Closure Report  
Incident ID: nAPP2415757870  
Carbon Valley 31 Federal Com #001H  
Lat/Long: 32.8759499, -104.2073593  
Project ID: 20240410-murchison-carbonValley31\_1H

NMOCD:

McNabb Partners LLC submits this closure request for the above incident on behalf of 3R Operating, LLC.

This report includes remediation action and confirmation sampling activities conducted at the Carbon Valley 31 Federal Com #001H production site. The remediation was completed in accordance with the remediation work plan submitted to NMOCD and approved on 12/13/2024.

- Communications with NMOCD regarding workplan approval and all sampling notifications are included in Appendix A.

## 1. Remediation Activities and Confirmation Sampling

Closure Criteria for the site according to Table I in 19.29.12.12 NMAC is listed below:

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

Prior to the start of remediation, 3 storage tanks have been removed from the containment, and the liner was removed from all areas of concern. Remediation activities began on December 30, 2024. The final confirmation sampling event was conducted on January 8, 2025. 4,200 sq ft of impacted soil surface within a tank battery containment have been remediated to depths ranging from 0.5



Carbon Valley 31 Fed #001H  
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foot below ground surface (ft bgs). All impacted soil was hauled off for a disposal at the approved facility (R360 Halfway Disposal and Landfill, Facility ID: fEEM0112334510)

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.

12 base confirmation samples (i.e., BS-01 through BS-12) were collected from the base of the excavation at depths from 2.5 ft bgs to 10ft bgs. The elevated pad area where the storage tanks had been sitting was scraped to a depth of 0.5 ft bgs. 9 base confirmation samples (i.e., BS-13 through BS-21) were collected after the scrape.

7 side wall confirmation samples (i.e., WS-01 through WS-07) were collected from the outside walls of the excavation. 2 side wall confirmation samples (i.e., WS-08 and WS-09) were collected at the depth change from 2.5 ft bgs to 10 ft bgs sections of the excavation. 6 side wall confirmation samples (i.e., WS-10 through WS-15) were collected from the inside walls of the excavation.

4 test pit sample locations (i.e., BH-01 through BH-04) were installed in the area where the storage tanks had been sitting after confirmation samples BS-13 through BS-21 and WS-10 through WS-15 were collected. Test pit samples were collected at depths of 2 and 4 ft bgs to investigate possible contamination under the area where the storage tanks had been sitting.

Analytical results indicate that all base and side wall confirmation samples, and test pit samples meet the most stringent closure criteria for sites located in area of high Karst potential, therefore all impacted soil was removed from the tank battery containment.

Upon approval of the closure report, excavation will be backfilled with a clean non-waste containing caliche to restore the surface to an active production pad for oil and gas operations. The new protective liner material will be installed after the backfilling.

- Plate 1 shows the site map of entire Carbon Valley 31 Fed 001H well pad.
- Plate 2 shows the final excavation map with confirmation sample locations.
- Confirmation sample and test pit sample results are included in Table A Summary of Analytical.
- Certificate of Analysis and laboratory reports are included in Appendix B.
- All sampling notifications are included in Appendix A.
- Figures 1 through 8 show the final view of the excavated areas and test pit locations.

## 2. Closure Request

Remediation Closure Request	
Requesting a remediation closure approval with this submission?	Yes
Have the lateral and vertical extents of contamination been fully delineated?	Yes

Carbon Valley 31 Fed #001H  
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Was this release entirely contained within a lined containment area?	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized?	Yes
What was the total surface area (in sq ft) remediated?	4,200
What was the total volume (cubic yards) remediated?	381
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of 4 ft non waste containing material with concentration less than 600 mg/kg chlorides?	Yes
What was the total surface area (in sq ft) reclaimed?	4,200
What was the total volume (in cubic yards) reclaimed?	381
Summarize any addition remediation activities not included in answers above	Dig and haul disposal

On behalf of 3R Operating LLC, we respectfully request closure for the incident ID: nAPP2415757870. Based on the remedial action activities and confirmation samples analytical results, the Site is compliant with applicable closure requirements set forth in rule 19.15.19.12 NMAC and no further actions are required at the site.

When the production site is no longer in use for oil and gas operations, the surface will be restored, reclaimed and revegetated per 19.15.29.12 and 19.15.29.13 NMAC.

Please contact me with any questions.

Sincerely,

Dimitry Nikanorov  
Project Manager  
McNabb Partners  
(917) 497-6890



Copy: Brad Grandstaff, 3R Operating, LLC  
Bureau of Land Management



Carbon Valley 31 Fed #001H  
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Figure 1. Excavation activities.



Figure 2. Excavation activities.



Figure 3. Excavation activities.



Figure 4. Excavation activities.



Figure 5. Excavation activities.



Figure 6. Excavation activities.



Carbon Valley 31 Fed #001H  
nAPP2415757870

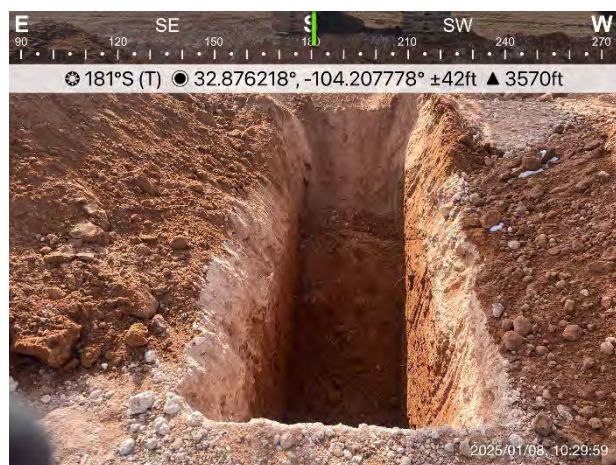


Figure 7. Test pit.

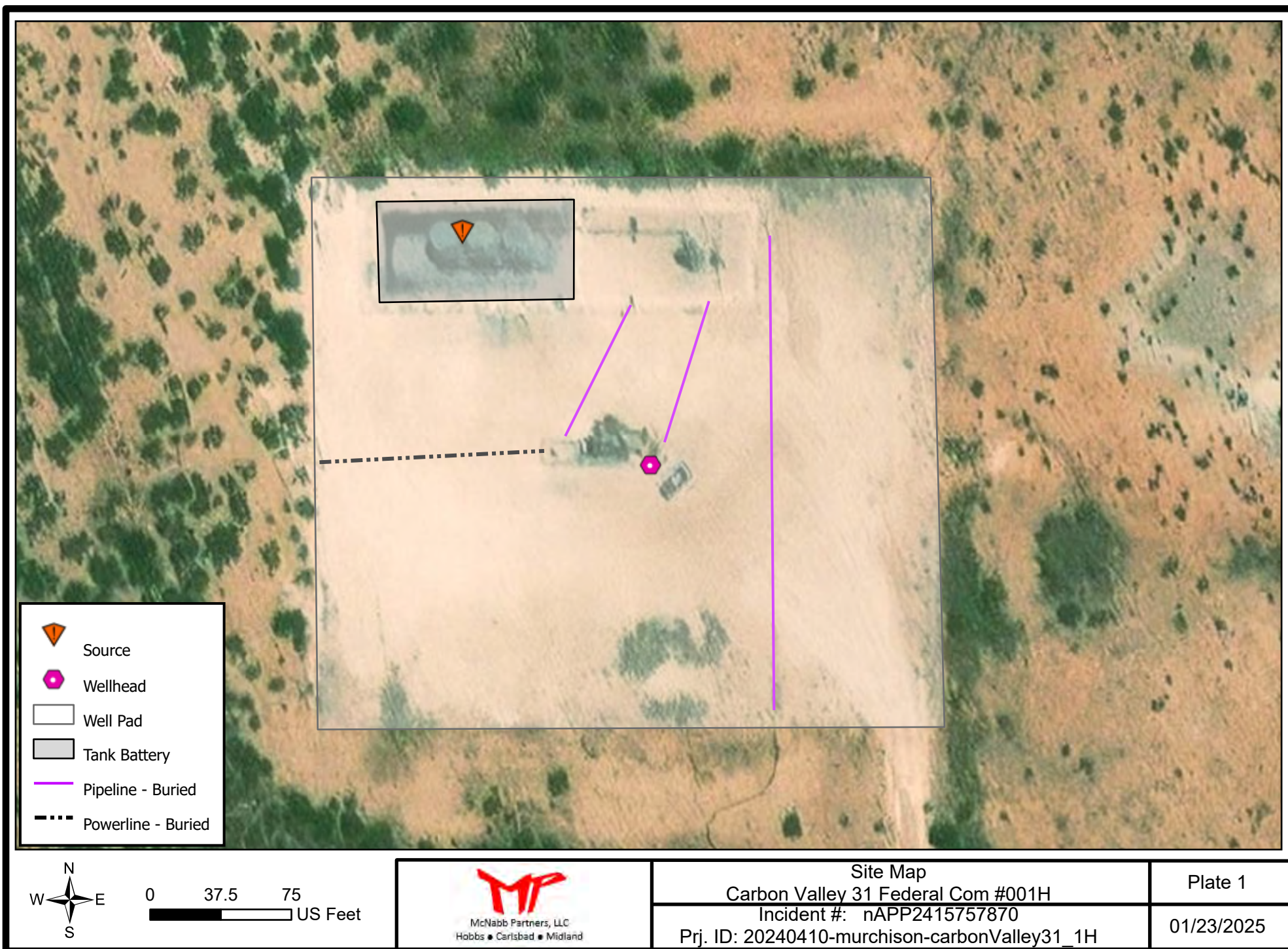


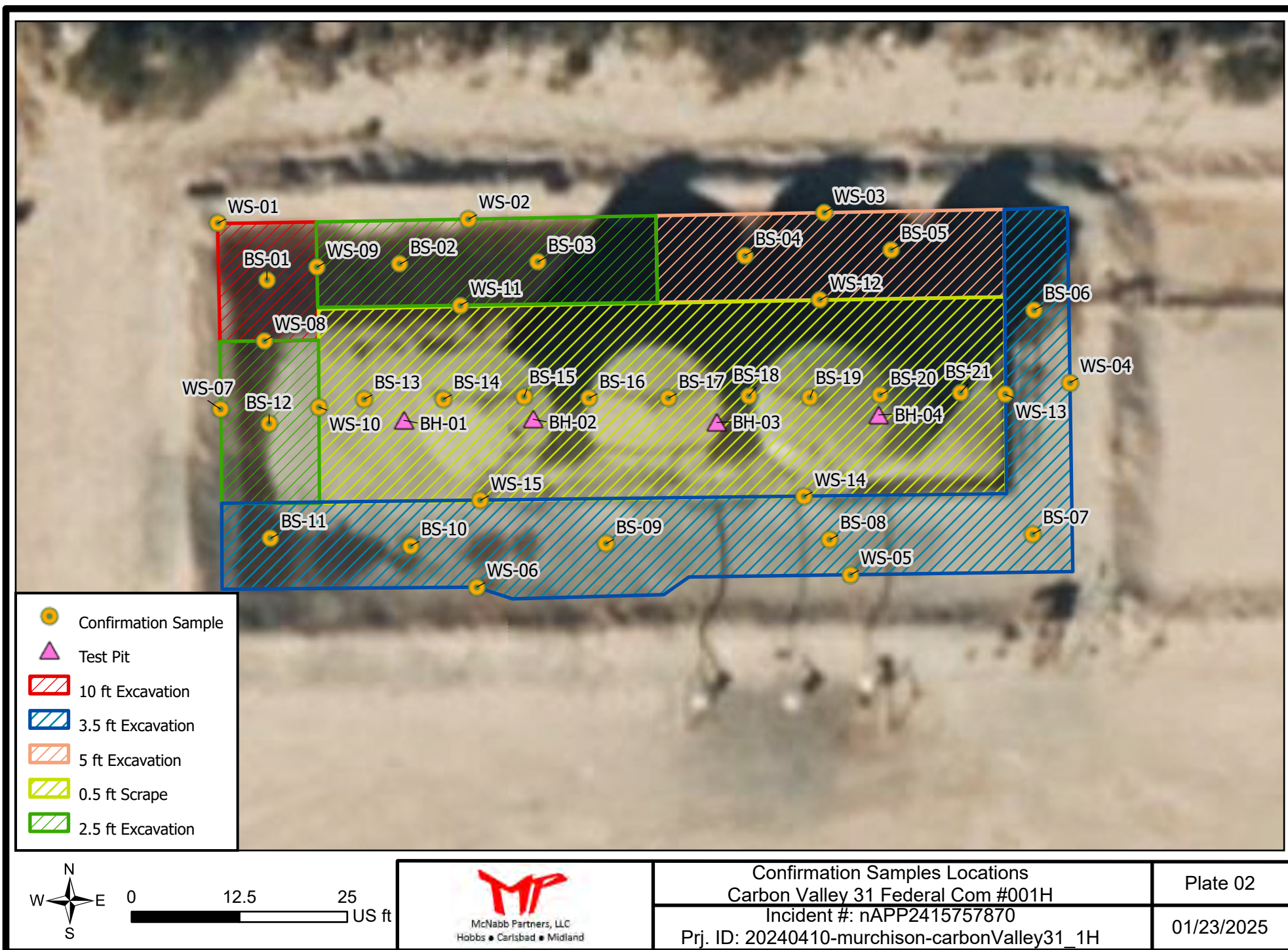
Figure 8. Test pit.

# Plates



McNabb Partners, LLC  
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# Tables



McNabb Partners, LLC  
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Table A. Analytical Summary  
Carbon Valley 31 Fed #001

Sample ID	Date	Depth (Feet)	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD Closure Criteria			600	--	--	--	--	100	10	50
Excavation Base Confirmation Samples										
BS-01	1/8/2025	10	112	<10.0	<10.0	<20.0	<10.0	<30.0	<30.0	<0.300
BS-02	1/8/2025	2.5	240	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-03	1/8/2025	2.5	192	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-04	1/8/2025	5	368	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-05	1/8/2025	5	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-06	1/8/2025	3.5	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-07	1/8/2025	3.5	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-08	1/8/2025	3.5	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-09	1/8/2025	3.5	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-10	1/8/2025	3.5	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-11	1/8/2025	3.5	192	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-12	1/8/2025	2.5	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-13	1/8/2025	0.5	144	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-14	1/8/2025	0.5	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-15	1/8/2025	0.5	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-16	1/8/2025	0.5	96	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-17	1/8/2025	0.5	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-18	1/8/2025	0.5	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-19	1/8/2025	0.5	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-20	1/8/2025	0.5	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-21	1/8/2025	0.5	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
Excavation Side Wall Confirmation Samples										
WS-01	1/8/2025	0-10	112	<10.0	<10.0	<20.0	<10.0	<30.0	<30.0	<0.300
WS-02	1/8/2025	0-2.5	160	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-03	1/8/2025	0-5	96	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-04	1/8/2025	0-3.5	96	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-05	1/8/2025	0-3.5	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-06	1/8/2025	0-3.5	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-07	1/8/2025	0-2.5	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-08	1/8/2025	2.5-10	144	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-09	1/8/2025	2.5-10	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-10	1/8/2025	0-2.5	144	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-11	1/8/2025	0-2.5	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300

Table A. Analytical Summary  
Carbon Valley 31 Fed #001

Sample ID	Date	Depth (Feet)	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD Closure Criteria			600	--	--	--	--	100	10	50
WS-12	1/8/2025	0-5	96	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-13	1/8/2025	0-3.5	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-14	1/8/2025	0-3.5	128	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-15	1/8/2025	0-3.5	176	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
Test Pit Samples										
BH-01	1/8/2025	2	208	<10.0	<10.0	<20.0	<10.0	<30.0	<30.0	<0.300
BH-01	1/8/2025	4	144	<10.0	<10.0	<20.0	<10.0	<30.0	<30.0	<0.300
BH-02	1/8/2025	2	160	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BH-02	1/8/2025	4	160	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BH-03	1/8/2025	2	176	<10.0	<10.0	<20.0	<10.0	<30.0	<30.0	<0.300
BH-03	1/8/2025	4	192	<10.0	<10.0	<20.0	<10.0	<30.0	<30.0	<0.300
BH-04	1/8/2025	2	176	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BH-04	1/8/2025	4	192	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300

# Appendix A

## Communications



McNabb Partners, LLC  
Hobbs • Carlsbad • Midland



Outlook

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The Oil Conservation Division (OCD) has approved the application, Application ID: 411147

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From OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Date Fri 12/13/2024 8:47 AM

To Dimitry Nikanorov <Dimitry@mcnabbpartners.com>

To whom it may concern (c/o Dimitry Nikanorov for 3R Operating, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2415757870, with the following conditions:

- **Remediation plan approved. There is a statement on the first page that states "...this remediation work plan proposal and deferral request..." This approval is not an approval for a deferral.**
- **The proposed depths and lateral extents of the proposed excavations must be expanded if confirmation/final samples do not meet the most stringent closure criteria.**
- **Confirmation samples must be five (5) point composite samples collected from the base and side walls of the excavations and must represent an area no larger than 200 square feet. Grab soil samples must be collected from any areas of discoloration. All confirmation samples must be analyzed for BTEX, TPH, and chloride.**
- **Submit a complete and accurate report through the OCD permitting website by 3/13/2025.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,

Brittany Hall

Projects Environmental Specialist - A

505-517-5333

Brittany.Hall@emnrd.nm.gov

**New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 417021

QUESTIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 417021
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415757870
Incident Name	NAPP2415757870 CARBON VALLEY 31 FEDERAL COM #001H @ 30-015-37603
Incident Type	Other
Incident Status	Remediation Plan Approved
Incident Well	[30-015-37603] CARBON VALLEY 31 FEDERAL COM #001H

Location of Release Source	
Site Name	CARBON VALLEY 31 FEDERAL COM #001H
Date Release Discovered	04/10/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,400
What is the estimated number of samples that will be gathered	12
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/08/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact dimitry@mcnabbpartners.com or 917-497-6890
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.876264, -104.207694

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 417021

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 417021
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
dnikanorov24	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/6/2025

# Appendix B

## Certificates of Analysis



McNabb Partners, LLC  
Hobbs • Carlsbad • Midland

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

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January 22, 2025

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 31-1

Enclosed are the results of analyses for samples received by the laboratory on 01/10/25 10:19.

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](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited 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)

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



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 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BS - 01 10'	H250107-01	Soil	08-Jan-25 10:00	10-Jan-25 10:19
BS - 02 2.5'	H250107-02	Soil	08-Jan-25 10:05	10-Jan-25 10:19
BS - 03 2.5'	H250107-03	Soil	08-Jan-25 10:10	10-Jan-25 10:19
BS - 04 5'	H250107-04	Soil	08-Jan-25 10:15	10-Jan-25 10:19
BS - 05 5'	H250107-05	Soil	08-Jan-25 10:20	10-Jan-25 10:19
BS - 06 3.5'	H250107-06	Soil	08-Jan-25 10:25	10-Jan-25 10:19
BS - 07 3.5'	H250107-07	Soil	08-Jan-25 10:30	10-Jan-25 10:19
BS - 08 3.5'	H250107-08	Soil	08-Jan-25 10:35	10-Jan-25 10:19
BS - 09 3.5'	H250107-09	Soil	08-Jan-25 10:40	10-Jan-25 10:19
BS - 10 3.5'	H250107-10	Soil	08-Jan-25 10:45	10-Jan-25 10:19
BS - 11 3.5'	H250107-11	Soil	08-Jan-25 10:50	10-Jan-25 10:19
BS - 12 2.5'	H250107-12	Soil	08-Jan-25 10:55	10-Jan-25 10:19
BS - 13 0.5'	H250107-13	Soil	08-Jan-25 11:00	10-Jan-25 10:19
BS - 14 0.5'	H250107-14	Soil	08-Jan-25 11:05	10-Jan-25 10:19
BS - 15 0.5'	H250107-15	Soil	08-Jan-25 11:10	10-Jan-25 10:19
BS - 16 0.5'	H250107-16	Soil	08-Jan-25 11:15	10-Jan-25 10:19
BS - 17 0.5'	H250107-17	Soil	08-Jan-25 11:20	10-Jan-25 10:19
BS - 18 0.5'	H250107-18	Soil	08-Jan-25 11:25	10-Jan-25 10:19
BS - 19 0.5'	H250107-19	Soil	08-Jan-25 11:30	10-Jan-25 10:19
BS - 20 0.5'	H250107-20	Soil	08-Jan-25 11:35	10-Jan-25 10:19
BS - 21 0.5'	H250107-21	Soil	08-Jan-25 11:40	10-Jan-25 10:19
WS - 01 0-10'	H250107-22	Soil	08-Jan-25 11:45	10-Jan-25 10:19
WS - 02 0-2.5'	H250107-23	Soil	08-Jan-25 11:50	10-Jan-25 10:19
WS - 03 0-5'	H250107-24	Soil	08-Jan-25 11:55	10-Jan-25 10:19
WS - 04 0-3.5'	H250107-25	Soil	08-Jan-25 12:00	10-Jan-25 10:19
WS - 05 0-3.5'	H250107-26	Soil	08-Jan-25 12:05	10-Jan-25 10:19
WS - 06 0-3.5'	H250107-27	Soil	08-Jan-25 12:10	10-Jan-25 10:19

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 or any other cause whatsoever 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 damage 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. Keene, Lab Director/Quality Manager



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 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

WS - 07 0-2.5'	H250107-28	Soil	08-Jan-25 12:15	10-Jan-25 10:19
WS - 08 2.5-10'	H250107-29	Soil	08-Jan-25 12:20	10-Jan-25 10:19
WS - 09 2.5-10'	H250107-30	Soil	08-Jan-25 12:25	10-Jan-25 10:19
WS - 10 0-2.5'	H250107-31	Soil	08-Jan-25 12:30	10-Jan-25 10:19
WS - 11 0-2.5'	H250107-32	Soil	08-Jan-25 12:35	10-Jan-25 10:19
WS - 12 0-5'	H250107-33	Soil	08-Jan-25 12:40	10-Jan-25 10:19
WS - 13 0-3.5'	H250107-34	Soil	08-Jan-25 12:45	10-Jan-25 10:19
WS - 14 0-3.5'	H250107-35	Soil	08-Jan-25 12:50	10-Jan-25 10:19
WS - 15 0-3.5'	H250107-36	Soil	08-Jan-25 12:55	10-Jan-25 10:19
BH - 01 2'	H250107-37	Soil	08-Jan-25 13:00	10-Jan-25 10:19
BH - 01 4'	H250107-38	Soil	08-Jan-25 13:05	10-Jan-25 10:19
BH - 02 2'	H250107-39	Soil	08-Jan-25 13:10	10-Jan-25 10:19
BH - 02 4'	H250107-40	Soil	08-Jan-25 13:15	10-Jan-25 10:19
BH - 03 2'	H250107-41	Soil	08-Jan-25 13:20	10-Jan-25 10:19
BH - 03 4'	H250107-42	Soil	08-Jan-25 13:25	10-Jan-25 10:19
BH - 04 2'	H250107-43	Soil	08-Jan-25 13:30	10-Jan-25 10:19
BH - 04 4'	H250107-44	Soil	08-Jan-25 13:35	10-Jan-25 10:19

01/22/25 - Client changed the sample depths on -06 to -11, -25 to -27 and -34 to -36 (see COC). This is the revised report and will replace the one sent on 01/16/25

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 01 10'**  
**H250107-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	5011005	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011006	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134 5011006 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 89.3 % 48.2-134 5011009 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148 5011009 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 02 2.5'**  
**H250107-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5011005	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011006	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134 5011006 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 86.6 % 48.2-134 5011009 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148 5011009 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 03 2.5'**  
**H250107-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011006	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		5011006	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.5 %	48.2-134		5011009	MS	10-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.5 %	49.1-148		5011009	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 04 5'**  
**H250107-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>368</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5011006	JH	10-Jan-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5011006	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>102 %</i>	<i>71.5-134</i>	<i>5011006</i>	<i>JH</i>	<i>10-Jan-25</i>	<i>8021B</i>	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>	<i>90.6 %</i>	<i>48.2-134</i>	<i>5011009</i>	<i>MS</i>	<i>10-Jan-25</i>	<i>8015B</i>	
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<i>Surrogate: 1-Chlorooctadecane</i>	<i>79.5 %</i>	<i>49.1-148</i>	<i>5011009</i>	<i>MS</i>	<i>10-Jan-25</i>	<i>8015B</i>	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 05 5'**  
**H250107-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	QR-03
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	QR-03
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	QR-03
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	QR-03
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 89.3 % 48.2-134 5011009 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148 5011009 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 06 3.5'**  
**H250107-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>113 %</i>	<i>71.5-134</i>	<i>5011008</i>	<i>JH</i>	<i>10-Jan-25</i>	<i>8021B</i>			
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>	<i>93.2 %</i>	<i>48.2-134</i>	<i>5011009</i>	<i>MS</i>	<i>10-Jan-25</i>	<i>8015B</i>			
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<i>Surrogate: 1-Chlorooctadecane</i>	<i>80.0 %</i>	<i>49.1-148</i>	<i>5011009</i>	<i>MS</i>	<i>10-Jan-25</i>	<i>8015B</i>			
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 07 3.5'**  
**H250107-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 93.5 % 48.2-134 5011009 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148 5011009 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 08 3.5'**  
**H250107-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 94.4 % 48.2-134 5011009 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148 5011009 MS 10-Jan-25 8015B

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 09 3.5'**  
**H250107-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		110 %		71.5-134		5011008	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane		97.2 %		48.2-134		5011009	MS	10-Jan-25	8015B	
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Surrogate: 1-Chlorooctadecane		85.2 %		49.1-148		5011009	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 10 3.5'**  
**H250107-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 81.3 % 48.2-134 5011009 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148 5011009 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 11 3.5'**  
**H250107-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B
Toluene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B
Total BTEX	<0.300	0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B

Surrogate: 4-Bromofluorobenzene (PID)	111 %	71.5-134	5011008	JH	10-Jan-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B

Surrogate: 1-Chlorooctane	85.2 %	48.2-134	5011009	MS	10-Jan-25	8015B
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Surrogate: 1-Chlorooctadecane	73.4 %	49.1-148	5011009	MS	10-Jan-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 12 2.5'**  
**H250107-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B
Toluene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B
Total BTEX	<0.300	0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B

Surrogate: 4-Bromofluorobenzene (PID)	114 %	71.5-134	5011008	JH	10-Jan-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B

Surrogate: 1-Chlorooctane	83.9 %	48.2-134	5011009	MS	10-Jan-25	8015B
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Surrogate: 1-Chlorooctadecane	75.8 %	49.1-148	5011009	MS	10-Jan-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 13 0.5'**  
**H250107-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B
Toluene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B
Total BTEX	<0.300	0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B

Surrogate: 4-Bromofluorobenzene (PID)	112 %	71.5-134	5011008	JH	10-Jan-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B

Surrogate: 1-Chlorooctane	92.8 %	48.2-134	5011009	MS	10-Jan-25	8015B
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Surrogate: 1-Chlorooctadecane	81.3 %	49.1-148	5011009	MS	10-Jan-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 14 0.5'**  
**H250107-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		71.5-134	5011008	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.8 %		48.2-134	5011009	MS	10-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			76.9 %		49.1-148	5011009	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 15 0.5'**  
**H250107-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 109 % 48.2-134 5011009 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148 5011009 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 16 0.5'**  
**H250107-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %		71.5-134	5011008	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.2 %		48.2-134	5011009	MS	10-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.6 %		49.1-148	5011009	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 17 0.5'**  
**H250107-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 84.3 % 48.2-134 5011009 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 72.4 % 49.1-148 5011009 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 18 0.5'**  
**H250107-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 84.2 % 48.2-134 5011009 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148 5011009 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 19 0.5'**  
**H250107-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011009	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 111 % 48.2-134 5011009 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148 5011009 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 20 0.5'**  
**H250107-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 69.9 % 48.2-134 5011010 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148 5011010 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BS - 21 0.5'**  
**H250107-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 77.2 % 48.2-134 5011010 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148 5011010 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 01 0-10'**  
**H250107-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	5011018	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134 5011008 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 79.8 % 48.2-134 5011010 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148 5011010 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 02 0-2.5'****H250107-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	113 %	71.5-134	5011008	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane	76.9 %	48.2-134	5011010	MS	10-Jan-25	8015B	
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Surrogate: 1-Chlorooctadecane	84.1 %	49.1-148	5011010	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 03 0-5'**  
**H250107-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011008	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011008	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %	71.5-134		5011008	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.7 %	48.2-134		5011010	MS	10-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.4 %	49.1-148		5011010	MS	10-Jan-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 04 0-3.5'****H250107-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	QM-07, QR-03
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	QR-03
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	QM-07, QR-03
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	QM-07, QR-03
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		5011011	JH	10-Jan-25	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
Surrogate: 1-Chlorooctane			74.7 %	48.2-134		5011010	MS	10-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			81.2 %	49.1-148		5011010	MS	10-Jan-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 05 0-3.5'****H250107-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	110 %	71.5-134	5011011	JH	10-Jan-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B

Surrogate: 1-Chlorooctane	76.8 %	48.2-134	5011010	MS	10-Jan-25	8015B
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Surrogate: 1-Chlorooctadecane	83.1 %	49.1-148	5011010	MS	10-Jan-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 06 0-3.5'****H250107-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		5011011	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane			76.0 %	48.2-134		5011010	MS	10-Jan-25	8015B	
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Surrogate: 1-Chlorooctadecane			83.0 %	49.1-148		5011010	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 07 0-2.5'****H250107-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %		71.5-134	5011011	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane			79.8 %		48.2-134	5011010	MS	10-Jan-25	8015B	
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Surrogate: 1-Chlorooctadecane			87.4 %		49.1-148	5011010	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 08 2.5-10'****H250107-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	5011011	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.6 %		48.2-134	5011010	MS	10-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.3 %		49.1-148	5011010	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 09 2.5-10'****H250107-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5011011	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane			74.7 %	48.2-134		5011010	MS	10-Jan-25	8015B	
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Surrogate: 1-Chlorooctadecane			81.5 %	49.1-148		5011010	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 10 0-2.5'****H250107-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 5011011 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 76.6 % 48.2-134 5011010 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148 5011010 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 11 0-2.5'****H250107-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	71.5-134	5011011	JH	10-Jan-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B

Surrogate: 1-Chlorooctane	72.7 %	48.2-134	5011010	MS	10-Jan-25	8015B
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Surrogate: 1-Chlorooctadecane	79.9 %	49.1-148	5011010	MS	10-Jan-25	8015B
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 12 0-5'**  
**H250107-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		5011011	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			72.1 %	48.2-134		5011010	MS	10-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.5 %	49.1-148		5011010	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 13 0-3.5'****H250107-34 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134 5011011 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 79.9 % 48.2-134 5011010 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148 5011010 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 14 0-3.5'****H250107-35 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	110 %	71.5-134	5011011	JH	10-Jan-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B

Surrogate: 1-Chlorooctane	66.7 %	48.2-134	5011010	MS	10-Jan-25	8015B
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Surrogate: 1-Chlorooctadecane	72.3 %	49.1-148	5011010	MS	10-Jan-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**WS - 15 0-3.5'****H250107-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 5011011 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 79.3 % 48.2-134 5011010 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148 5011010 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BH - 01 2'**  
**H250107-37 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	107 %	71.5-134	5011011	JH	10-Jan-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B

Surrogate: 1-Chlorooctane	79.5 %	48.2-134	5011010	MS	10-Jan-25	8015B
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Surrogate: 1-Chlorooctadecane	87.0 %	49.1-148	5011010	MS	10-Jan-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BH - 01 4'**  
**H250107-38 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		5011011	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.1 %	48.2-134		5011010	MS	10-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.9 %	49.1-148		5011010	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BH - 02 2'**  
**H250107-39 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		5011011	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011010	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.7 %	48.2-134		5011010	MS	10-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.5 %	49.1-148		5011010	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BH - 02 4'**  
**H250107-40 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		5011011	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.1 %	48.2-134		5011015	MS	10-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.3 %	49.1-148		5011015	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BH - 03 2'**  
**H250107-41 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	108 %	71.5-134	5011011	JH	10-Jan-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B

Surrogate: 1-Chlorooctane	88.2 %	48.2-134	5011015	MS	10-Jan-25	8015B
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Surrogate: 1-Chlorooctadecane	85.7 %	49.1-148	5011015	MS	10-Jan-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BH - 03 4'**  
**H250107-42 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	5011021	HM	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		5011011	JH	10-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.2 %	48.2-134		5011015	MS	10-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.8 %	49.1-148		5011015	MS	10-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BH - 04 2'**  
**H250107-43 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	5011030	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 5011011 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 89.8 % 48.2-134 5011015 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148 5011015 MS 10-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**BH - 04 4'**  
**H250107-44 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	5011030	KV	10-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011011	JH	10-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011011	JH	10-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 5011011 JH 10-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011015	MS	10-Jan-25	8015B	

Surrogate: 1-Chlorooctane 95.1 % 48.2-134 5011015 MS 10-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148 5011015 MS 10-Jan-25 8015B

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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5011005 - 1:4 DI Water****Blank (5011005-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	ND	16.0	mg/kg
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**LCS (5011005-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	464	16.0	mg/kg	400	116	80-120
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**LCS Dup (5011005-BSD1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	448	16.0	mg/kg	400	112	80-120	3.51	20
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**Batch 5011018 - 1:4 DI Water****Blank (5011018-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	ND	16.0	mg/kg
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**LCS (5011018-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	432	16.0	mg/kg	400	108	80-120
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**LCS Dup (5011018-BSD1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	448	16.0	mg/kg	400	112	80-120	3.64	20
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**Batch 5011021 - 1:4 DI Water****Blank (5011021-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	ND	16.0	mg/kg
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**LCS (5011021-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	432	16.0	mg/kg	400	108	80-120
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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5011021 - 1:4 DI Water****LCS Dup (5011021-BSD1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20
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**Batch 5011030 - 1:4 DI Water****Blank (5011030-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	ND	16.0	mg/kg
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**LCS (5011030-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	432	16.0	mg/kg	400	108	80-120
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**LCS Dup (5011030-BSD1)**

Prepared &amp; Analyzed: 10-Jan-25

Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20
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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5011006 - Volatiles****Blank (5011006-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

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)	ND		mg/kg	0.0500		99.6	71.5-134			

**LCS (5011006-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

Benzene	1.85	0.050	mg/kg	2.00		92.4	82.8-130			
Toluene	2.00	0.050	mg/kg	2.00		99.9	86-128			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.06	0.100	mg/kg	4.00		101	89-129			
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125			
Total Xylenes	6.10	0.150	mg/kg	6.00		102	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.8	71.5-134			

**LCS Dup (5011006-BSD1)**

Prepared &amp; Analyzed: 10-Jan-25

Benzene	1.75	0.050	mg/kg	2.00		87.6	82.8-130	5.29	15.8	
Toluene	1.87	0.050	mg/kg	2.00		93.3	86-128	6.83	15.9	
Ethylbenzene	1.90	0.050	mg/kg	2.00		94.8	85.9-128	7.15	16	
m,p-Xylene	3.79	0.100	mg/kg	4.00		94.6	89-129	6.90	16.2	
o-Xylene	1.89	0.050	mg/kg	2.00		94.5	86.1-125	7.66	16.7	
Total Xylenes	5.68	0.150	mg/kg	6.00		94.6	88.2-128	7.16	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.5	71.5-134			

**Batch 5011008 - Volatiles****Blank (5011008-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

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							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5011008 - Volatiles****Blank (5011008-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			

**LCS (5011008-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

Benzene	2.07	0.050	mg/kg	2.00		104	82.8-130			
Toluene	2.31	0.050	mg/kg	2.00		116	86-128			
Ethylbenzene	2.45	0.050	mg/kg	2.00		122	85.9-128			
m,p-Xylene	4.95	0.100	mg/kg	4.00		124	89-129			
o-Xylene	2.51	0.050	mg/kg	2.00		125	86.1-125			
Total Xylenes	7.46	0.150	mg/kg	6.00		124	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0531		mg/kg	0.0500		106	71.5-134			

**LCS Dup (5011008-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

Benzene	1.82	0.050	mg/kg	2.00		90.8	82.8-130	13.1	15.8	
Toluene	1.91	0.050	mg/kg	2.00		95.5	86-128	19.1	15.9	QR-04
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.7	85.9-128	20.4	16	QR-04
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	89-129	20.1	16.2	QR-04
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125	18.8	16.7	QR-04
Total Xylenes	6.12	0.150	mg/kg	6.00		102	88.2-128	19.7	16.3	QR-04
Surrogate: 4-Bromofluorobenzene (PID)	0.0526		mg/kg	0.0500		105	71.5-134			

**Batch 5011011 - Volatiles****Blank (5011011-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

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)	0.0549		mg/kg	0.0500		110	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5011011 - Volatiles****LCS (5011011-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.08	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.23	0.050	mg/kg	2.00		112	85.9-128			
m,p-Xylene	4.46	0.100	mg/kg	4.00		111	89-129			
o-Xylene	2.18	0.050	mg/kg	2.00		109	86.1-125			
Total Xylenes	6.64	0.150	mg/kg	6.00		111	88.2-128			

Surrogate: 4-Bromofluorobenzene (PID)

0.0502

mg/kg

0.0500

100

71.5-134

**LCS Dup (5011011-BSD1)**

Prepared &amp; Analyzed: 10-Jan-25

Benzene	1.91	0.050	mg/kg	2.00		95.5	82.8-130	6.63	15.8	
Toluene	1.93	0.050	mg/kg	2.00		96.5	86-128	7.66	15.9	
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	85.9-128	7.04	16	
m,p-Xylene	4.21	0.100	mg/kg	4.00		105	89-129	5.76	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125	4.69	16.7	
Total Xylenes	6.29	0.150	mg/kg	6.00		105	88.2-128	5.40	16.3	

Surrogate: 4-Bromofluorobenzene (PID)

0.0519

mg/kg

0.0500

104

71.5-134

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**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
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**Batch 5011009 - General Prep - Organics****Blank (5011009-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

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	49.7		mg/kg	50.0		99.4	48.2-134			
Surrogate: 1-Chlorooctadecane	43.5		mg/kg	50.0		86.9	49.1-148			

**LCS (5011009-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

GRO C6-C10	185	10.0	mg/kg	200		92.3	81.5-123			
DRO >C10-C28	180	10.0	mg/kg	200		89.9	77.7-122			
Total TPH C6-C28	364	10.0	mg/kg	400		91.1	80.9-121			
Surrogate: 1-Chlorooctane	58.8		mg/kg	50.0		118	48.2-134			
Surrogate: 1-Chlorooctadecane	53.9		mg/kg	50.0		108	49.1-148			

**LCS Dup (5011009-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

GRO C6-C10	201	10.0	mg/kg	200		100	81.5-123	8.47	13	
DRO >C10-C28	194	10.0	mg/kg	200		96.8	77.7-122	7.38	15.6	
Total TPH C6-C28	394	10.0	mg/kg	400		98.6	80.9-121	7.93	18.5	
Surrogate: 1-Chlorooctane	59.4		mg/kg	50.0		119	48.2-134			
Surrogate: 1-Chlorooctadecane	53.2		mg/kg	50.0		106	49.1-148			

**Batch 5011010 - General Prep - Organics****Blank (5011010-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

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	41.8		mg/kg	50.0		83.6	48.2-134			
Surrogate: 1-Chlorooctadecane	46.1		mg/kg	50.0		92.3	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**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
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**Batch 5011010 - General Prep - Organics****LCS (5011010-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

GRO C6-C10	202	10.0	mg/kg	200		101	81.5-123			
DRO >C10-C28	183	10.0	mg/kg	200		91.5	77.7-122			
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	80.9-121			
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	55.3		mg/kg	50.0		111	49.1-148			

**LCS Dup (5011010-BSD1)**

Prepared &amp; Analyzed: 10-Jan-25

GRO C6-C10	213	10.0	mg/kg	200		107	81.5-123	5.48	13	
DRO >C10-C28	193	10.0	mg/kg	200		96.3	77.7-122	5.06	15.6	
Total TPH C6-C28	406	10.0	mg/kg	400		102	80.9-121	5.28	18.5	
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.5	48.2-134			
Surrogate: 1-Chlorooctadecane	53.0		mg/kg	50.0		106	49.1-148			

**Batch 5011015 - General Prep - Organics****Blank (5011015-BLK1)**

Prepared &amp; Analyzed: 10-Jan-25

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	49.4		mg/kg	50.0		98.8	48.2-134			
Surrogate: 1-Chlorooctadecane	48.2		mg/kg	50.0		96.4	49.1-148			

**LCS (5011015-BS1)**

Prepared &amp; Analyzed: 10-Jan-25

GRO C6-C10	196	10.0	mg/kg	200		98.0	81.5-123			
DRO >C10-C28	182	10.0	mg/kg	200		91.0	77.7-122			
Total TPH C6-C28	374	10.0	mg/kg	400		93.4	80.9-121			
Surrogate: 1-Chlorooctane	58.6		mg/kg	50.0		117	48.2-134			
Surrogate: 1-Chlorooctadecane	56.6		mg/kg	50.0		113	49.1-148			

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**Analytical Results For:**

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

Project: CARBON VALLEY 31-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
22-Jan-25 17:37

**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
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**Batch 5011015 - General Prep - Organics****LCS Dup (5011015-BSD1)**

Prepared &amp; Analyzed: 10-Jan-25

GRO C6-C10	210	10.0	mg/kg	200		105	81.5-123	6.68	13	
DRO >C10-C28	198	10.0	mg/kg	200		99.0	77.7-122	8.47	15.6	
Total TPH C6-C28	408	10.0	mg/kg	400		102	80.9-121	8.70	18.5	
Surrogate: 1-Chlorooctane	59.0		mg/kg	50.0		118	48.2-134			
Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0		113	49.1-148			

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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

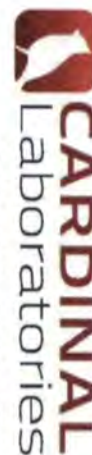
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST									
Company Name: McNabb Partners										P.O. #:									
Project Manager: Dmity Nikanorov										Company: McNabb Partners									
Address: 5014 W Carlsbad Hwy										Attn:									
City: Hobbs										State: NM Zip: 88240									
Phone #: 917-497-6890										Fax #:									
Project #:										Project Owner: Ridge Runner									
Project Name: Carbon Valley 31-1										City:									
Project Location: Eddy County, NM										State: Zip:									
Sample Name: Dmity Nikanorov										Phone #:									
FOR LAB USE ONLY										Fax #:									
Lab I.D.										Sample I.D.									
HSD107										(G)RAB OR (C)OMP.									
32										# CONTAINERS									
WS-10										GROUNDWATER									
WS-11										WASTEWATER									
WS-12										SOIL									
WS-13										OIL									
WS-14										SLUDGE									
WS-15										OTHER :									
BH-01										ACID/BASE:									
BH-02										ICE / COOL									
BH-03										OTHER :									
BH-04										DATE									
BH-05										TIME									
BH-06										TPH									
BH-07										Chloride									
BH-08										BTEX									
BH-09																			
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 424256

QUESTIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 424256
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415757870
Incident Name	NAPP2415757870 CARBON VALLEY 31 FEDERAL COM #001H @ 30-015-37603
Incident Type	Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-37603] CARBON VALLEY 31 FEDERAL COM #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CARBON VALLEY 31 FEDERAL COM #001H
Date Release Discovered	04/10/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	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 by Environmental consultant at site inspection on 4/10/24. Environmental consultant to investigate area inside lined tank battery containment. Stained caliche being removed and disposed of at OCD approved facility. Preparing for liner inspection.

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 424256

**QUESTIONS (continued)**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 424256
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 06/17/2024
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QUESTIONS, Page 3

Action 424256

**QUESTIONS (continued)**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID:
	331569
	Action Number:
	424256
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 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 1 and 5 (mi.)
A subsurface mine	Between ½ and 1 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1060
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	16207
GRO+DRO (EPA SW-846 Method 8015M)	13680
BTEX (EPA SW-846 Method 8021B or 8260B)	12.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>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>	
On what estimated date will the remediation commence	12/16/2024
On what date will (or did) the final sampling or liner inspection occur	01/16/2025
On what date will (or was) the remediation complete(d)	02/16/2025
What is the estimated surface area (in square feet) that will be reclaimed	3800
What is the estimated volume (in cubic yards) that will be reclaimed	315
What is the estimated surface area (in square feet) that will be remediated	3800
What is the estimated volume (in cubic yards) that will be remediated	315
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 424256

**QUESTIONS (continued)**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 424256
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>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>	
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: Dmitry Nikanorov Email: dimitry@mcnabbpartners.com Date: 12/12/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 424256

QUESTIONS (continued)

Operator:  3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID:  331569
	Action Number:  424256
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	No

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QUESTIONS, Page 6

Action 424256

**QUESTIONS (continued)**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 424256
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	417021
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/08/2025
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	2400

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4200
What was the total volume (cubic yards) remediated	381
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	4200
What was the total volume (in cubic yards) reclaimed	381
Summarize any additional remediation activities not included by answers (above)	Dig and haul disposal
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Dmitry Nikanorov Email: dimitry@mcnabbpartners.com Date: 01/23/2025

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QUESTIONS, Page 7  
  
Action 424256

QUESTIONS (continued)

Operator:  3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID:  331569
	Action Number:  424256
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 424256

**CONDITIONS**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID:
	331569
	Action Number:
	424256
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**CONDITIONS**

Created By	Condition	Condition Date
bhall	Remediation closure approved.	1/24/2025
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	1/24/2025
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	1/24/2025
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	1/24/2025
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	1/24/2025
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	1/24/2025