CARMONA RESOURCES

SITE INFORMATION

Closure Report
Benson Shugart Waterflood Unit #011
Incident #: NMCS0124830799
Eddy County, New Mexico
Unit I Sec 26 T18S R30E
32.7175636°, -103.935173°

Produced Water Release
Point of Release: Pump failed causing water tank to run over inside dike area.
Release Date: 07.06.2001
Volume Released: 100 Barrels of Produced Water
Volume Recovered: 30 Barrels of Produced Water

CARMONA RESOURCES

Prepared for:
Chevron U.S.A., Inc.
6301 Deauville Blvd
Midland, Texas 79706

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 500
Midland, Texas 79701

310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

6.0 CONCLUSIONS

FIGURES

FIGURE 1	**OVERVIEW**	**FIGURE 2**	**TOPOGRAPHIC**
FIGURE 3	**SAMPLE LOCATION**	**FIGURE 4**	**EXCAVATION**

APPENDICES

APPENDIX A	**TABLES**
APPENDIX B	**PHOTOS**
APPENDIX C	**NMOCD CORRESPONDENCE**
APPENDIX D	**SITE CHARACTERIZATION AND GROUNDWATER**
APPENDIX E	**LABORATORY REPORTS**

310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

April 15, 2025

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Closure Report
Benson Shugart Waterflood Unit #011
Incident ID: NMCS0124830799
Chevron U.S.A., Inc.
Site Location: Unit I, S26, T18S, R30E
(Lat 32.7175636°, Long -103.935173°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Chevron U.S.A., Inc. (Chevron), Carmona Resources, LLC has prepared this letter to document site assessment and remediation activities for the Benson Shugart Waterflood Unit #011. The site is located at 32.7175636°,-103.935173° within Unit I, S26, T18S, R30E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the information obtained from the NMOCD portal, the release was discovered on July 6, 2001, caused by a pump failing making the water tank overflow inside dike area releasing approximately one hundred (100) barrels of produced water, of which thirty (30) barrels of produced water were recovered. The NMOCD correspondence is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.21 miles Southwest of the site in Unit I, S26, T18S, R30E and was drilled in 1994. The well has a reported depth to groundwater of 183.99' feet below ground surface (bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

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4.0 Site Assessment Activities

Initial Assessment

On February 26, 2025, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release utilizing a hand auger. A total of four (4) soil samples (S-1 through S-4), and six (6) horizontal sample points (H-1 through H-6) were installed to total depths ranging from surface to 5' bgs inside the area of concern. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and Chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was achieved in all areas for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 1.

Horizontal Delineation

Horizontal delineation was achieved in all areas for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 1.

5.0 Remediation Activities

Between March 31, 2025, and April 7, 2025, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on March 27, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 1.75' bgs. On April 1, 2025, a total of two (2) confirmation floor samples were collected (CS-1 through CS-2), and ten (10) sidewall samples (SW-1 through SW-10) were collected every 200 square feet to ensure the proper removal of the contaminated soils. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and Chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figures 4.

All final confirmation samples were below the regulatory requirements for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 2.

Before the excavation was backfilled, a composite sample of the backfill material was collected on March 28, 2025, to ensure the material was clean per NMOCD standards. The backfill material was sourced from the Stockton Pit located at 32.7148476°, -103.9422935°. Refer to Table 2. Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Per the client request pea gravel was added to the surface to minimize slips, trips, and falls during normal oilfield operations. Approximately 280 square feet of contamination was remediated, resulting in approximately 20 cubic yards of material excavated and transported offsite for proper disposal.

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6.0 Conclusions

Based on the analytical data from the remediation, no further actions are required at the site. Chevron formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,
Carmona Resources, LLC

Ashton Thielke
Environmental Manager

Riley Plogger
Project Manager

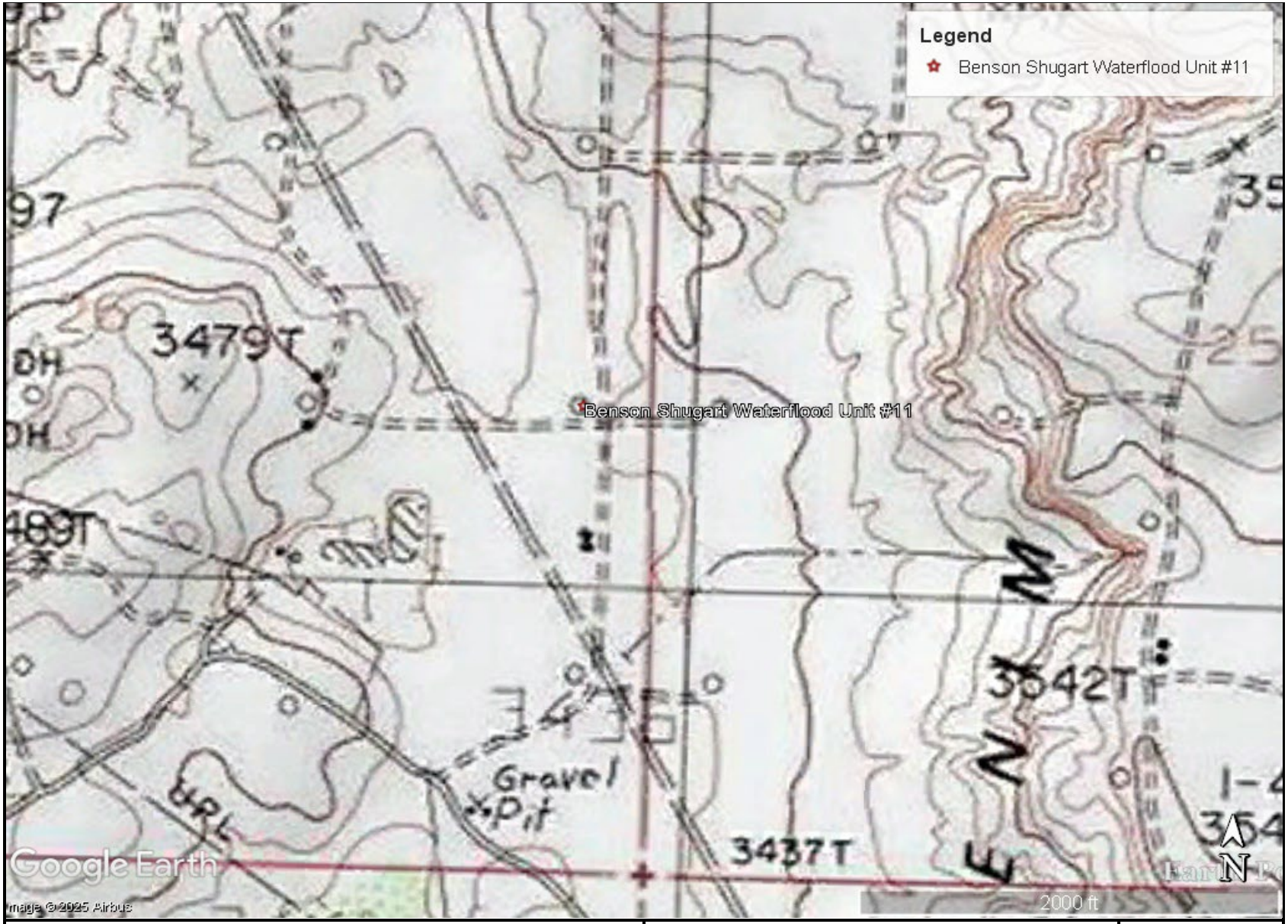
Gilbert Priego
Project Manager

310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

FIGURES

CARMONA RESOURCES

SITE OVERVIEW MAP CHEVRON U.S.A BENSON SHUGART WATERFLOOD UNIT #11 EDDY COUNTY, NEW MEXICO 31.7175636, -103.935173	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHY MAP CHEVRON U.S.A BENSON SHUGART WATERFLOOD UNIT #11 EDDY COUNTY, NEW MEXICO 31.7175636, -103.935173	CARMONA RESOURCES	FIGURE 2

SAMPLE LOCATION MAP CHEVRON U.S.A BENSON SHUGART WATERFLOOD UNIT #11 EDDY COUNTY, NEW MEXICO 31.7175636, -103.935173	CARMONA RESOURCES	FIGURE 3

EXCAVATION DEPTH MAP CHEVRON U.S.A BENSON SHUGART WATERFLOOD UNIT #11 EDDY COUNTY, NEW MEXICO 31.7175636, -103.935173	CARMONA RESOURCES	FIGURE 4

APPENDIX A

CARMONA RESOURCES

Table 1
Chevron
Benson Shugart Waterflood Unit #011
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	2/26/2025	0-1.0'	<49.8	**293**	<49.8	**293**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	9.96
	"	1.5'	<50.2	**187**	<50.2	**187**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<10.1
	"	2.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.96
	"	3.0'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<9.94
	"	4.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.92
	"	5.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.98
S-2	2/26/2025	0-1.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	38.4
	"	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<10.0
	"	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.98
	"	3.0'	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<9.94
	"	4.0'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<9.92
	"	5.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<10.0
S-3	2/26/2025	0-1.0'	<50.1	63.8	<50.1	63.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.90
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<10.1
	"	2.0'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<10.0
	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<9.98
	"	4.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.96
	"	5.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10.1
S-4	2/26/2025	0-1.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.92
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<10.0
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.94
	"	3.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.96
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(S) Sample Point
Removed

Table 1
Chevron
Benson Shugart Waterflood Unit #011
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	2/26/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	12.4
H-2	2/26/2025	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	285
H-3	2/26/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	115
H-4	2/26/2025	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<10.1
H-5	2/26/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<9.96
H-6	2/26/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	30.8
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(H) Horzontal Sample

Table 2
Chevron
Benson Shugart Waterflood Unit #011
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-2	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-1	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-2	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-3	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-5	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-6	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-7	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-8	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-9	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-10	4/1/2025	1.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Backfill Sample	3/28/2025	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) Confirmation Floor Sample
(SW) Confirmation Sidewall Sample

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Chevron U.S.A. Inc.

Photograph No. 1

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

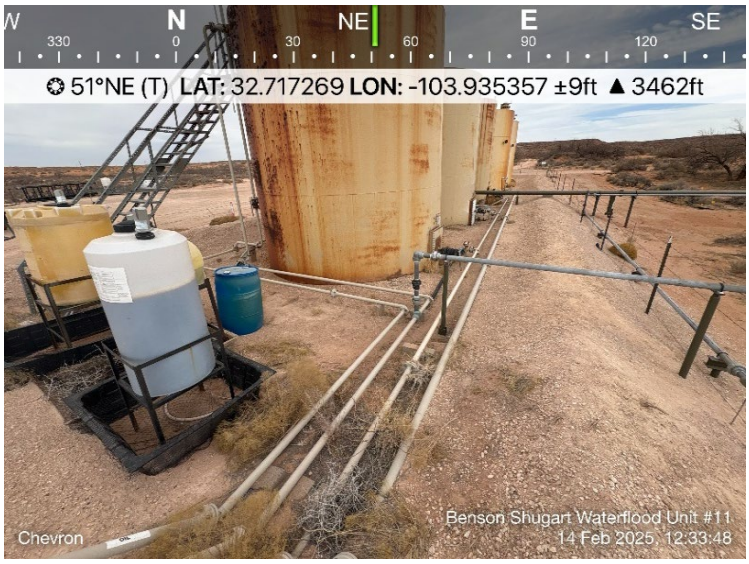
Description:
View Southwest, area of S-1

Photograph No. 2

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View Northeast, area of S-1



Photograph No. 3

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View South, area of S-1.

PHOTOGRAPHIC LOG

Chevron U.S.A. Inc.

Photograph No. 4

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

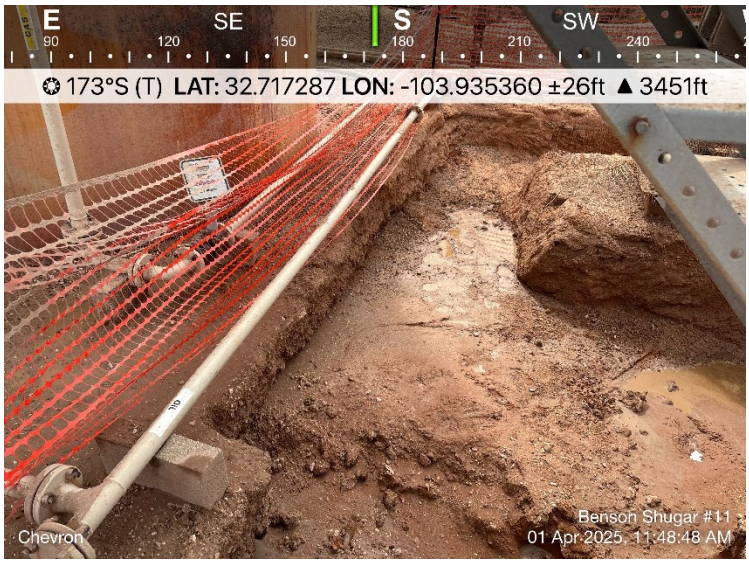
Description:
View South. Hydrovac area of CS-1

Photograph No. 5

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View South. Hydrovac area of CS-1



Photograph No. 6

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View Southwest, Hydrovac area of CS-1.

PHOTOGRAPHIC LOG

Chevron U.S.A. Inc.

Photograph No. 7

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View East. Hydrovac area of CS-1

Photograph No. 8

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View South. Htdrovac area of CS-1

Photograph No. 9

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View East. Hydrovac area of CS-1

PHOTOGRAPHIC LOG

Chevron U.S.A. Inc.

Photograph No. 10

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View Southwest, area backfilled with caliche & #1 pea gravel per Chevron safety protocol.

Photograph No. 11

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View Southwest, area backfilled with caliche & #1 pea gravel per Chevron safety protocol.

Photograph No. 12

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View West, area backfilled with caliche & #1 pea gravel per Chevron safety protocol.

PHOTOGRAPHIC LOG

Chevron U.S.A. Inc.

Photograph No. 13

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View East, area backfilled with caliche & #1 pea gravel per Chevron safety protocol.

Photograph No. 14

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View Northeast, area backfilled with caliche & #1 pea gravel per Chevron safety protocol.

Photograph No. 15

Facility: Benson Shugart Waterflood Unit #011

County: Eddy County, New Mexico

Description:
View West, area backfilled with caliche & #1 pea gravel per Chevron safety protocol.

APPENDIX C

CARMONA RESOURCES

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

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 434503
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nMCS0124830799**
Incident Name	**NMCS0124830799 2001 MAJOR A OHR @ 30-015-20528**
Incident Type	**Other**
Incident Status	**Closure Not Approved**
Incident Well	**[30-015-20528] BENSON SHUGART WATERFLOOD UNIT #011**

Location of Release Source	
Site Name	*Unavailable.*
Date Release Discovered	**07/06/2001**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,800
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/26/2025
Time sampling will commence	01:00 PM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	(32.7175636, -103.935173) Carmona Resources will be onsite to conduct a site assessment of the historical spill area inside and around the tank battery.

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 434503
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	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.	2/24/2025

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 446392

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 446392
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nMCS0124830799**
Incident Name	**NMCS0124830799 2001 MAJOR A OHR @ 30-015-20528**
Incident Type	**Other**
Incident Status	**Closure Not Approved**
Incident Well	**[30-015-20528] BENSON SHUGART WATERFLOOD UNIT #011**

Location of Release Source	
Site Name	*Unavailable.*
Date Release Discovered	**07/06/2001**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	450
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/01/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	"(32.7175636, -103.935173) Carmona Resources will be onsite to conduct composite confirmation sampling from 04.01.2025 and will continue until 04.02.2025."

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 446392
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	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.	3/27/2025

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

Chevron USA

Legend

- 0.21 Miles
- 0.43 Miles
- 0.50 Mile Radius
- BENSON SHUGART WATERFLOOD UNIT #011 (07.06.2001)
- USGS Water Well

BENSON SHUGART WATERFLOOD UNIT #011 (07.06.2001)

183.99' - Drilled 1994

204.60' - Drilled 1968

Google Earth

N

3000 ft

Medium Karst

Chevron USA

Legend

- BENSON SHUGART WATERFLOOD UNIT #011 (07.06.2001)
- High
- Low
- Medium

BENSON SHUGART WATERFLOOD UNIT #011 (07.06.2001)

Google Earth

N

3000 ft

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

(meters) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
CP 00818 POD1		CP	LE		NW	SE	26	18S	30E	599289.0	3620364.0 *		512	240		
CP 00767 POD1		CP	ED		SW	NE	35	18S	30E	599300.0	3619158.0 *		1406	500		
CP 00853 POD1	O	CP	ED		NE	SE	28	18S	30E	596472.0	3620340.0 *		3319	350		

Average Depth to Water: **0 feet**

Minimum Depth: **0 feet**

Maximum Depth: **0 feet**

Record Count: 3

UTM Filters (in meters):

Easting: 599789.00

Northing: 3620477.00

Radius: 4000

*** UTM location was derived from PLSS - see Help**

USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324244103561601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 324244103561601 18S.30E.26.414144

Eddy County, New Mexico
Latitude 32°42'55.8", Longitude 103°56'16.4" NAD83
Land-surface elevation 3,431 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1976-05-28		D	62610		3235.07	NGVD29	1	Z		
1976-05-28		D	62611		3236.61	NAVD88	1	Z		
1976-05-28		D	72019	194.39			1	Z		
1983-04-12		D	62610		3243.42	NGVD29	1	Z		
1983-04-12		D	62611		3244.96	NAVD88	1	Z		
1983-04-12		D	72019	186.04			1	Z		
1990-10-10		D	62610		3246.44	NGVD29	1	S		
1990-10-10		D	62611		3247.98	NAVD88	1	S		
1990-10-10		D	72019	183.02			1	S		
1994-03-16		D	62610		3245.47	NGVD29	1	S		
1994-03-16		D	62611		3247.01	NAVD88	1	S		
1994-03-16		D	72019	183.99			1	S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions or Comments
Help
Data Tips
Explanation of terms
Subscribe for system changes

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2025-03-12 09:55:27 EDT
0.32 0.24 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324241103561201

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 324241103561201 18S.30E.26.4140

Eddy County, New Mexico
Latitude 32°42'41", Longitude 103°56'12" NAD27
Land-surface elevation 3,432 feet above NAVD88
The depth of the well is 230 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1968-03-07		D	62610		3225.86	NGVD29	1	Z		
1968-03-07		D	62611		3227.40	NAVD88	1	Z		
1968-03-07		D	72019	204.60			1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static

Section	Code	Description
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

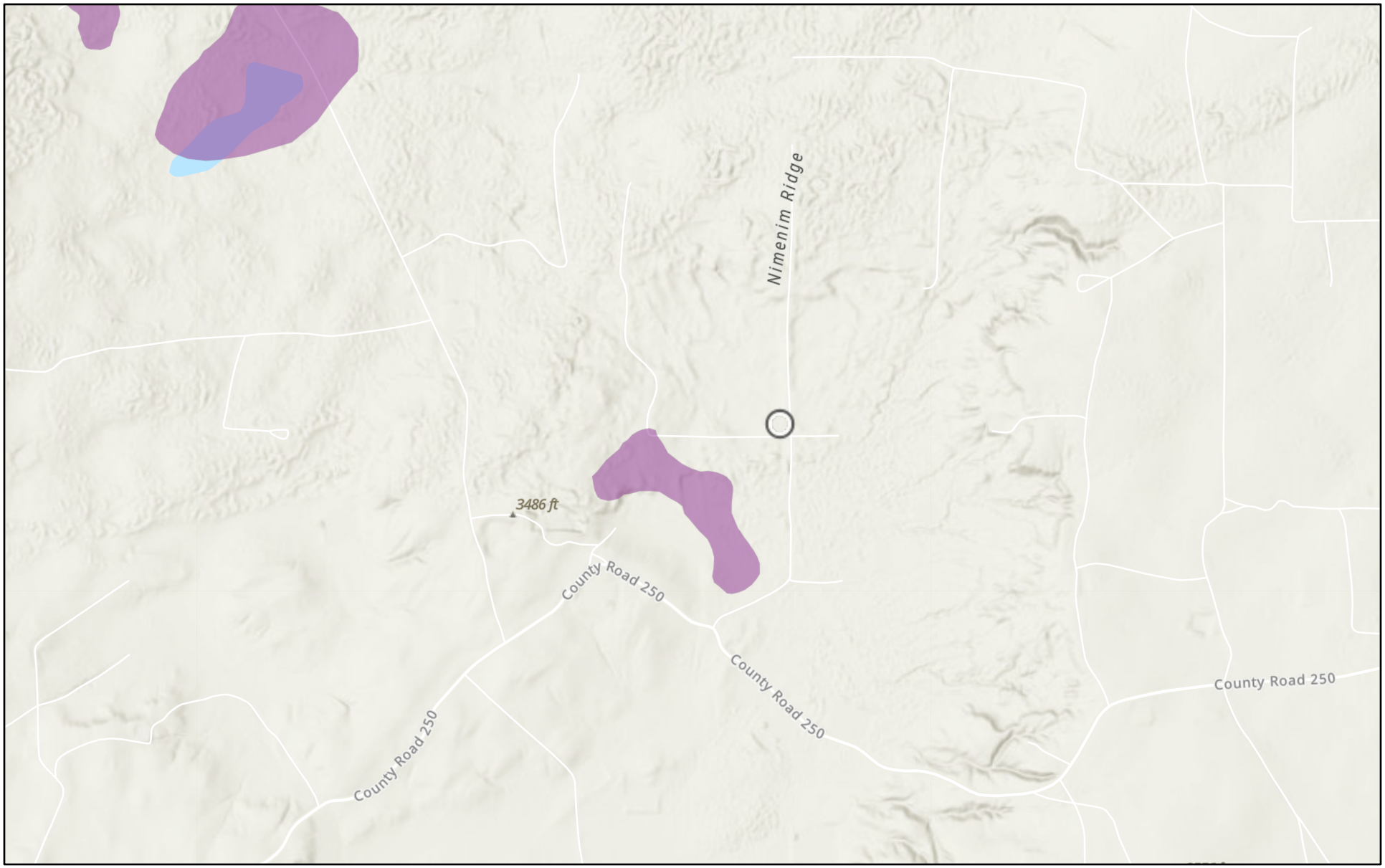
Questions or Comments
Help
Data Tips
Explanation of terms
Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2025-03-12 09:56:56 EDT
0.31 0.23 nadww01

BENSON SHUGART WATERFLOOD UNIT #011 (07.06.2001)



3/12/2025

USA Flood Hazard Areas

1% Annual Chance Flood Hazard

World_Hillshade

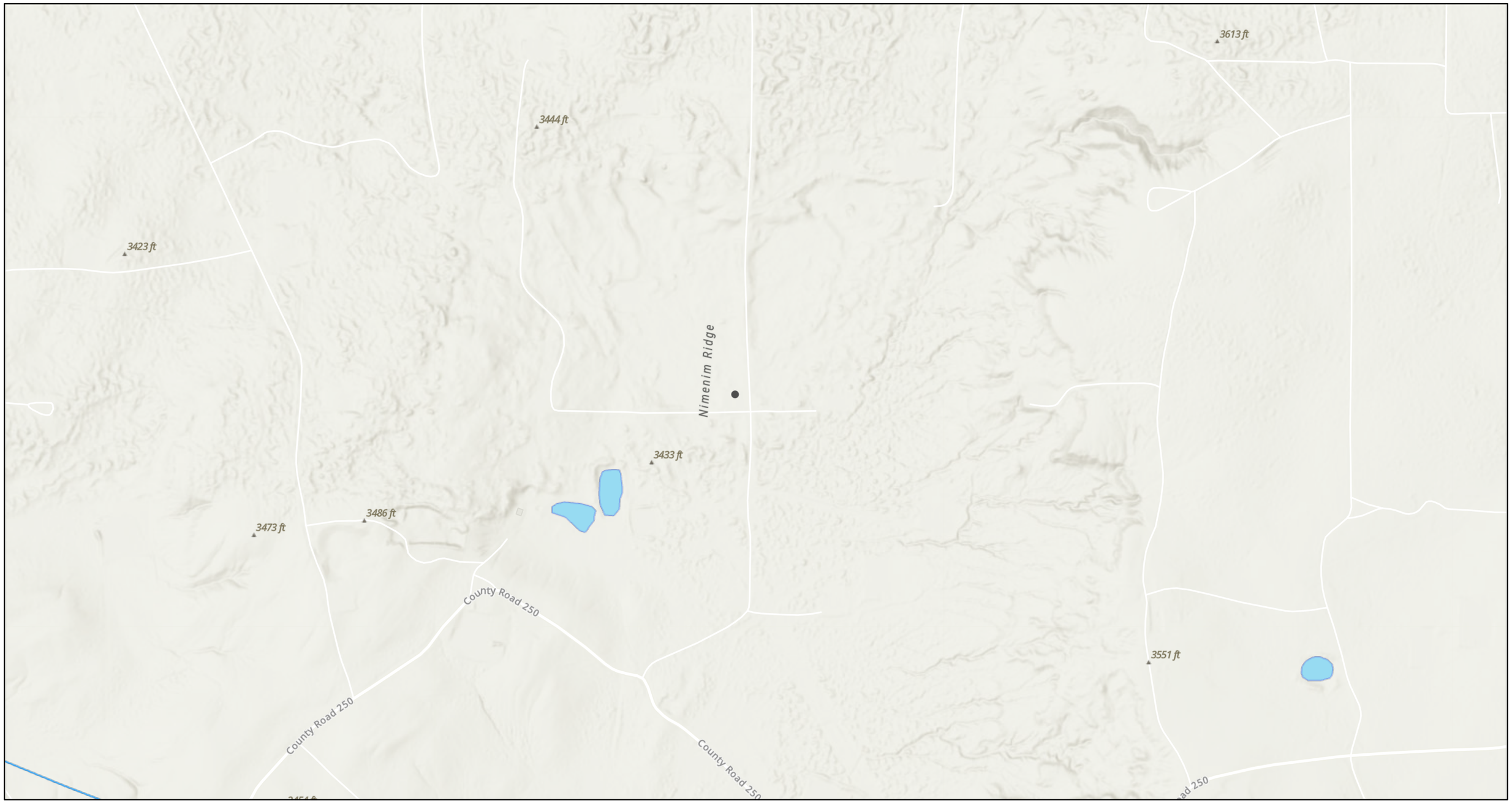
1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User

BENSON SHUGART WATERFLOOD UNIT #011 (07.06.2001)



3/12/2025, 9:19:22 AM

OSW Water Bodys

OSE Streams

1:9,028

0 0.07 0.15 0.3 mi

0 0.15 0.3 0.6 km

New Mexico Oil Conservation Division

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 3/3/2025 2:18:29 PM

JOB DESCRIPTION

Benson Shugart Waterflood Unit #011
Eddy County NM

JOB NUMBER

880-54964-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

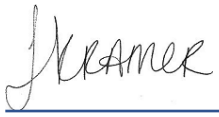
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
3/3/2025 2:18:29 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Laboratory Job ID: 880-54964-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 11
QC Sample Results 12
QC Association Summary 16
Lab Chronicle 19
Certification Summary 21
Method Summary 22
Sample Summary 23
Chain of Custody 24
Receipt Checklists 25

Definitions/Glossary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources Job ID: 880-54964-1
Project: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1 Eurofins Midland

Job Narrative
880-54964-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/27/2025 9:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-103803 and 880-103855 and analytical batch 880-103811 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-1 (0-0.5') (880-54964-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-103855 and analytical batch 880-103811 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-103806 and analytical batch 880-103820 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-54955-A-6-A), (880-54955-A-6-B MS) and (880-54955-A-6-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-103806 and analytical batch 880-103820 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-54964-1
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 11:18	02/28/25 03:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 11:18	02/28/25 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*02/27/25 11:18*	*02/28/25 03:10*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/27/25 11:18*	*02/28/25 03:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/28/25 03:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/25 05:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/25 08:28	02/28/25 05:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/25 08:28	02/28/25 05:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/25 08:28	02/28/25 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*02/27/25 08:28*	*02/28/25 05:41*	*1*
o-Terphenyl	*102*		*70 - 130*	*02/27/25 08:28*	*02/28/25 05:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.4**		10.0		mg/Kg			02/28/25 21:30	1

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-54964-2
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:18	02/28/25 03:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:18	02/28/25 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*02/27/25 11:18*	*02/28/25 03:31*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/27/25 11:18*	*02/28/25 03:31*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-54964-2
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 03:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/28/25 05:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 05:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 05:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*02/27/25 08:28*	*02/28/25 05:58*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/27/25 08:28*	*02/28/25 05:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**285**		10.1		mg/Kg			02/28/25 21:47	1

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-54964-3
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:18	02/28/25 03:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:18	02/28/25 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/27/25 11:18*	*02/28/25 03:52*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/27/25 11:18*	*02/28/25 03:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 03:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/25 06:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/25 08:28	02/28/25 06:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 08:28	02/28/25 06:13	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-54964-3
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 08:28	02/28/25 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*02/27/25 08:28*	*02/28/25 06:13*	*1*
o-Terphenyl	*103*		*70 - 130*	*02/27/25 08:28*	*02/28/25 06:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		9.92		mg/Kg			02/28/25 21:53	1

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-54964-4
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:18	02/28/25 04:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:18	02/28/25 04:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:18	02/28/25 04:12	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/27/25 11:18	02/28/25 04:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:18	02/28/25 04:12	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/27/25 11:18	02/28/25 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*02/27/25 11:18*	*02/28/25 04:12*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/27/25 11:18*	*02/28/25 04:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/28/25 04:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/28/25 06:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 06:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 06:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 06:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*02/27/25 08:28*	*02/28/25 06:45*	*1*
o-Terphenyl	*93*		*70 - 130*	*02/27/25 08:28*	*02/28/25 06:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			02/28/25 21:59	1

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-54964-5
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:18	02/28/25 06:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:18	02/28/25 06:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:18	02/28/25 06:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/27/25 11:18	02/28/25 06:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:18	02/28/25 06:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/27/25 11:18	02/28/25 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*02/27/25 11:18*	*02/28/25 06:02*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/27/25 11:18*	*02/28/25 06:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/28/25 06:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/25 07:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/25 08:28	02/28/25 07:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/25 08:28	02/28/25 07:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/25 08:28	02/28/25 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*02/27/25 08:28*	*02/28/25 07:00*	*1*
o-Terphenyl	*106*		*70 - 130*	*02/27/25 08:28*	*02/28/25 07:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			02/28/25 22:05	1

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-54964-6
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 06:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 06:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 06:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:18	02/28/25 06:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 06:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:18	02/28/25 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/27/25 11:18*	*02/28/25 06:22*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/27/25 11:18*	*02/28/25 06:22*	*1*

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Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Client Sample ID: H-6 (0-0.5')

Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Lab Sample ID: 880-54964-6

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 06:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/25 07:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/25 08:28	02/28/25 07:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 08:28	02/28/25 07:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 08:28	02/28/25 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*02/27/25 08:28*	*02/28/25 07:16*	*1*
o-Terphenyl	*104*		*70 - 130*	*02/27/25 08:28*	*02/28/25 07:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.8**		9.94		mg/Kg			02/28/25 22:22	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-54964-1	H-1 (0-0.5')	137 S1+	107										
880-54964-2	H-2 (0-0.5')	122	102										
880-54964-3	H-3 (0-0.5')	118	108										
880-54964-4	H-4 (0-0.5')	124	107										
880-54964-5	H-5 (0-0.5')	95	99										
880-54964-6	H-6 (0-0.5')	120	105										
880-54967-A-1-C MS	Matrix Spike	240 S1+	77										
880-54967-A-1-D MSD	Matrix Spike Duplicate	91	114										
LCS 880-103855/1-A	Lab Control Sample	118	102										
LCSD 880-103855/2-A	Lab Control Sample Dup	110	95										
MB 880-103803/5-A	Method Blank	149 S1+	94										
MB 880-103855/5-A	Method Blank	214 S1+	124										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-54955-A-6-B MS	Matrix Spike	132 S1+	111										
880-54955-A-6-C MSD	Matrix Spike Duplicate	136 S1+	113										
880-54964-1	H-1 (0-0.5')	122	102										
880-54964-2	H-2 (0-0.5')	118	95										
880-54964-3	H-3 (0-0.5')	124	103										
880-54964-4	H-4 (0-0.5')	115	93										
880-54964-5	H-5 (0-0.5')	130	106										
880-54964-6	H-6 (0-0.5')	128	104										
LCS 880-103806/2-A	Lab Control Sample	99	95										
LCSD 880-103806/3-A	Lab Control Sample Dup	103	100										
MB 880-103806/1-A	Method Blank	163 S1+	148 S1+										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-103803/5-A
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 08:15	02/27/25 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*02/27/25 08:15*	*02/27/25 13:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/27/25 08:15*	*02/27/25 13:03*	*1*

Lab Sample ID: MB 880-103855/5-A
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 00:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 00:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 00:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 11:18	02/28/25 00:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 00:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 11:18	02/28/25 00:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*214*	*S1+*	*70 - 130*	*02/27/25 11:18*	*02/28/25 00:39*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*02/27/25 11:18*	*02/28/25 00:39*	*1*

Lab Sample ID: LCS 880-103855/1-A
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1185		mg/Kg		119	70 - 130
Toluene	0.100	0.1144		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1191		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2589		mg/Kg		129	70 - 130
o-Xylene	0.100	0.1260		mg/Kg		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-103855/2-A
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103855

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1174		mg/Kg		117	70 - 130	1	35

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-103855/2-A
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103855

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1180		mg/Kg		118	70 - 130	3	35
Ethylbenzene			0.100	0.1241		mg/Kg		124	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2464		mg/Kg		123	70 - 130	5	35
o-Xylene			0.100	0.1175		mg/Kg		117	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-54967-A-1-C MS
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1 F2	0.100	0.01669	F1	mg/Kg		17	70 - 130
Toluene	<0.00199	U F1 F2	0.100	0.02008	F1	mg/Kg		20	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.03342	F1	mg/Kg		33	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1191	F1	mg/Kg		60	70 - 130
o-Xylene	<0.00199	U F1 F2	0.100	0.06596	F1	mg/Kg		66	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*240*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*

Lab Sample ID: 880-54967-A-1-D MSD
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 103855

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.100	0.06815	F1 F2	mg/Kg		68	70 - 130	121	35
Toluene	<0.00199	U F1 F2	0.100	0.03645	F1 F2	mg/Kg		36	70 - 130	58	35
Ethylbenzene	<0.00199	U F1 F2	0.100	0.02235	F1 F2	mg/Kg		22	70 - 130	40	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.04754	F1 F2	mg/Kg		24	70 - 130	86	35
o-Xylene	<0.00199	U F1 F2	0.100	0.02430	F1 F2	mg/Kg		24	70 - 130	92	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-103806/1-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/25 08:27	02/28/25 02:32	1

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-103806/1-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 08:27	02/28/25 02:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 08:27	02/28/25 02:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*02/27/25 08:27*	*02/28/25 02:32*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*02/27/25 08:27*	*02/28/25 02:32*	*1*

Lab Sample ID: LCS 880-103806/2-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1010		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: LCSD 880-103806/3-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1039		mg/Kg		104	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1073		mg/Kg		107	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-54955-A-6-B MS
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	244.8	F1	mg/Kg		24	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	252.6	F1	mg/Kg		25	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*132*	*S1+*	*70 - 130*
o-Terphenyl	*111*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-54955-A-6-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103820 — **Prep Batch: 103806**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	254.4	F1	mg/Kg		25	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	269.5	F1	mg/Kg		27	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*136*	*S1+*	*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103861/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/28/25 21:12	1

Lab Sample ID: LCS 880-103861/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-103861/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103897

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.2		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-54964-1 MS — **Client Sample ID: H-1 (0-0.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103897

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.4		251	281.2		mg/Kg		107	90 - 110

Lab Sample ID: 880-54964-1 MSD — **Client Sample ID: H-1 (0-0.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.4		251	282.0		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

GC VOA

Prep Batch: 103803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-103803/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 103811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54964-1	H-1 (0-0.5')	Total/NA	Solid	8021B	103855
880-54964-2	H-2 (0-0.5')	Total/NA	Solid	8021B	103855
880-54964-3	H-3 (0-0.5')	Total/NA	Solid	8021B	103855
880-54964-4	H-4 (0-0.5')	Total/NA	Solid	8021B	103855
880-54964-5	H-5 (0-0.5')	Total/NA	Solid	8021B	103855
880-54964-6	H-6 (0-0.5')	Total/NA	Solid	8021B	103855
MB 880-103803/5-A	Method Blank	Total/NA	Solid	8021B	103803
MB 880-103855/5-A	Method Blank	Total/NA	Solid	8021B	103855
LCS 880-103855/1-A	Lab Control Sample	Total/NA	Solid	8021B	103855
LCSD 880-103855/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103855
880-54967-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	103855
880-54967-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	103855

Prep Batch: 103855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54964-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-54964-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-54964-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-54964-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-54964-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-54964-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-103855/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103855/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103855/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-54967-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-54967-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 104020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54964-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-54964-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-54964-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-54964-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-54964-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-54964-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 103806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54964-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-54964-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-54964-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-54964-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-54964-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-54964-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-103806/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Prep Batch: 103806 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-103806/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54955-A-6-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-54955-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54964-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	103806
880-54964-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	103806
880-54964-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	103806
880-54964-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	103806
880-54964-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	103806
880-54964-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	103806
MB 880-103806/1-A	Method Blank	Total/NA	Solid	8015B NM	103806
LCS 880-103806/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103806
LCSD 880-103806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103806
880-54955-A-6-B MS	Matrix Spike	Total/NA	Solid	8015B NM	103806
880-54955-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	103806

Analysis Batch: 103991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54964-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-54964-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-54964-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-54964-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-54964-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-54964-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 103861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54964-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-54964-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-54964-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-54964-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-54964-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-54964-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-103861/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103861/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103861/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54964-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-54964-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 103897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54964-1	H-1 (0-0.5')	Soluble	Solid	300.0	103861
880-54964-2	H-2 (0-0.5')	Soluble	Solid	300.0	103861
880-54964-3	H-3 (0-0.5')	Soluble	Solid	300.0	103861
880-54964-4	H-4 (0-0.5')	Soluble	Solid	300.0	103861
880-54964-5	H-5 (0-0.5')	Soluble	Solid	300.0	103861

QC Association Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 103897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54964-6	H-6 (0-0.5')	Soluble	Solid	300.0	103861
MB 880-103861/1-A	Method Blank	Soluble	Solid	300.0	103861
LCS 880-103861/2-A	Lab Control Sample	Soluble	Solid	300.0	103861
LCSD 880-103861/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103861
880-54964-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	103861
880-54964-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	103861

Lab Chronicle

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-54964-1
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103855	02/27/25 11:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103811	02/28/25 03:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104020	02/28/25 03:10	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103991	02/28/25 05:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 05:41	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103861	02/27/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103897	02/28/25 21:30	CH	EET MID

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-54964-2
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103855	02/27/25 11:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103811	02/28/25 03:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104020	02/28/25 03:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103991	02/28/25 05:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 05:58	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	103861	02/27/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103897	02/28/25 21:47	CH	EET MID

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-54964-3
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103855	02/27/25 11:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103811	02/28/25 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104020	02/28/25 03:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103991	02/28/25 06:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 06:13	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103861	02/27/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103897	02/28/25 21:53	CH	EET MID

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-54964-4
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	103855	02/27/25 11:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103811	02/28/25 04:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104020	02/28/25 04:12	AJ	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-54964-4
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			103991	02/28/25 06:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 06:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	103861	02/27/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103897	02/28/25 21:59	CH	EET MID

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-54964-5
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103855	02/27/25 11:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103811	02/28/25 06:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104020	02/28/25 06:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103991	02/28/25 07:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 07:00	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	103861	02/27/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103897	02/28/25 22:05	CH	EET MID

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-54964-6
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103855	02/27/25 11:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103811	02/28/25 06:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104020	02/28/25 06:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103991	02/28/25 07:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 07:16	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103861	02/27/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103897	02/28/25 22:22	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-54964-1
Project/Site: Benson Shugart Waterflood Unit #011
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

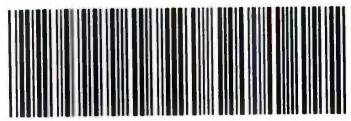
Sample Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54964-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-54964-1	H-1 (0-0.5')	Solid	02/26/25 00:00	02/27/25 09:07
880-54964-2	H-2 (0-0.5')	Solid	02/26/25 00:00	02/27/25 09:07
880-54964-3	H-3 (0-0.5')	Solid	02/26/25 00:00	02/27/25 09:07
880-54964-4	H-4 (0-0.5')	Solid	02/26/25 00:00	02/27/25 09:07
880-54964-5	H-5 (0-0.5')	Solid	02/26/25 00:00	02/27/25 09:07
880-54964-6	H-6 (0-0.5')	Solid	02/26/25 00:00	02/27/25 09:07

Chain of Custody


880-54964 Chain of Custody

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Benson Shugart Waterflood Unit #011	Turn Around	
Project Number:	2411	☑ Routine ☐ Rush	
Project Location	Eddy Co, NM	Due Date:	Normal
Sampler's Name:	GPJ/RP	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	T28
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.4
Total Containers:		Corrected Temperature:	0.3

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
H-1 (0-0.5')	2/26/2025		X		G	1		X	X	X		
H-2 (0-0.5')	2/26/2025		X		G	1		X	X	X		
H-3 (0-0.5')	2/26/2025		X		G	1		X	X	X		
H-4 (0-0.5')	2/26/2025		X		G	1		X	X	X		
H-5 (0-0.5')	2/26/2025		X		G	1		X	X	X		
H-6 (0-0.5')	2/26/2025		X		G	1		X	X	X		

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		2.27.25 907	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-54964-1
SDG Number: Eddy County NM

Login Number: 54964
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 3/6/2025 11:33:44 AM

JOB DESCRIPTION

Benson Shugart Waterflood Unit #011
Eddy County NM

JOB NUMBER

880-54966-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

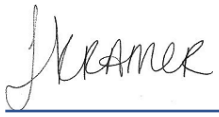
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
3/6/2025 11:33:44 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Laboratory Job ID: 880-54966-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 24
QC Sample Results 26
QC Association Summary 36
Lab Chronicle 42
Certification Summary 49
Method Summary 50
Sample Summary 51
Chain of Custody 52
Receipt Checklists 55

Definitions/Glossary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources Job ID: 880-54966-1
Project: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1 Eurofins Midland

Job Narrative
880-54966-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/27/2025 9:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-103853 and analytical batch 880-103810 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-103810 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-103810/20) and (CCV 880-103810/51).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-103803 and 880-103855 and analytical batch 880-103811 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-4 (2.0') (880-54966-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-103855 and analytical batch 880-103811 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-4 (2.0') (880-54966-21) and S-4 (3.0') (880-54966-22). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-103891/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-103891/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-104310 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-104310/40) and (CCV 880-104310/66).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-103839 and analytical batch 880-104310 was outside the upper control limits.

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Case Narrative

Client: Carmona Resources Job ID: 880-54966-1
Project: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1 (Continued) Eurofins Midland

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-104388 and analytical batch 880-104413 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-1 (0-1.0')

Lab Sample ID: 880-54966-1
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/27/25 22:35	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		02/27/25 11:10	02/27/25 22:35	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		02/27/25 11:10	02/27/25 22:35	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		02/27/25 11:10	02/27/25 22:35	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		02/27/25 11:10	02/27/25 22:35	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		02/27/25 11:10	02/27/25 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*02/27/25 11:10*	*02/27/25 22:35*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/27/25 11:10*	*02/27/25 22:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/27/25 22:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**293**		49.8		mg/Kg			03/05/25 15:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/05/25 10:45	03/05/25 15:34	1
Diesel Range Organics (Over C10-C28)	**293**		49.8		mg/Kg		03/05/25 10:45	03/05/25 15:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/05/25 10:45	03/05/25 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*03/05/25 10:45*	*03/05/25 15:34*	*1*
o-Terphenyl	*90*		*70 - 130*	*03/05/25 10:45*	*03/05/25 15:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.96**		9.92		mg/Kg			03/01/25 03:16	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-54966-2
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/27/25 22:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/27/25 22:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/27/25 22:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/27/25 22:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/27/25 22:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/27/25 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*02/27/25 11:10*	*02/27/25 22:55*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/27/25 11:10*	*02/27/25 22:55*	*1*

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-54966-2
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/27/25 22:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**187**		50.2		mg/Kg			03/05/25 15:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		03/05/25 10:45	03/05/25 15:49	1
Diesel Range Organics (Over C10-C28)	**187**		50.2		mg/Kg		03/05/25 10:45	03/05/25 15:49	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		03/05/25 10:45	03/05/25 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/05/25 10:45*	*03/05/25 15:49*	*1*
o-Terphenyl	*97*		*70 - 130*	*03/05/25 10:45*	*03/05/25 15:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			03/01/25 03:24	1

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-54966-3
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/27/25 23:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/27/25 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*02/27/25 11:10*	*02/27/25 23:16*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*02/27/25 11:10*	*02/27/25 23:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/27/25 23:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/05/25 01:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 01:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 01:16	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-54966-3
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*02/27/25 10:02*	*03/05/25 01:16*	*1*
o-Terphenyl	*89*		*70 - 130*	*02/27/25 10:02*	*03/05/25 01:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			03/01/25 03:31	1

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-54966-4
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:10	02/27/25 23:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:10	02/27/25 23:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:10	02/27/25 23:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/27/25 11:10	02/27/25 23:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:10	02/27/25 23:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/27/25 11:10	02/27/25 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*02/27/25 11:10*	*02/27/25 23:36*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/27/25 11:10*	*02/27/25 23:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/27/25 23:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/05/25 00:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 00:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 00:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*02/27/25 10:02*	*03/05/25 00:02*	*1*
o-Terphenyl	*86*		*70 - 130*	*02/27/25 10:02*	*03/05/25 00:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94		mg/Kg			03/01/25 03:38	1

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-1 (4.0')

Lab Sample ID: 880-54966-5
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/27/25 23:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/27/25 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*02/27/25 11:10*	*02/27/25 23:57*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/27/25 11:10*	*02/27/25 23:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/27/25 23:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/05/25 01:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 01:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 01:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/27/25 10:02*	*03/05/25 01:32*	*1*
o-Terphenyl	*80*		*70 - 130*	*02/27/25 10:02*	*03/05/25 01:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			03/01/25 04:01	1

Client Sample ID: S-1 (5.0')

Lab Sample ID: 880-54966-6
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 00:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 00:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 00:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/28/25 00:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 00:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/28/25 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/27/25 11:10*	*02/28/25 00:18*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/27/25 11:10*	*02/28/25 00:18*	*1*

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Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-1 (5.0')

Lab Sample ID: 880-54966-6
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/25 00:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/05/25 01:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 01:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 01:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*02/27/25 10:02*	*03/05/25 01:46*	*1*
o-Terphenyl	*88*		*70 - 130*	*02/27/25 10:02*	*03/05/25 01:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			03/01/25 04:08	1

Client Sample ID: S-2 (0-1.0')

Lab Sample ID: 880-54966-7
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 00:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 00:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 00:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 11:10	02/28/25 00:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 00:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 11:10	02/28/25 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/27/25 11:10*	*02/28/25 00:38*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/27/25 11:10*	*02/28/25 00:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/28/25 00:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/05/25 02:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 02:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 02:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-2 (0-1.0')

Lab Sample ID: 880-54966-7
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/27/25 10:02*	*03/05/25 02:01*	*1*
o-Terphenyl	*84*		*70 - 130*	*02/27/25 10:02*	*03/05/25 02:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.4**		9.98		mg/Kg			03/01/25 04:30	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-54966-8
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 00:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 00:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 00:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 00:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 00:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/27/25 11:10*	*02/28/25 00:59*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*02/27/25 11:10*	*02/28/25 00:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 00:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/05/25 02:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:15	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/27/25 10:02*	*03/05/25 02:15*	*1*
o-Terphenyl	*82*		*70 - 130*	*02/27/25 10:02*	*03/05/25 02:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/01/25 04:37	1

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-54966-9
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 01:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 01:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 01:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 01:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 01:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/27/25 11:10*	*02/28/25 01:19*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/27/25 11:10*	*02/28/25 01:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 01:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/05/25 02:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 02:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 02:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*02/27/25 10:02*	*03/05/25 02:31*	*1*
o-Terphenyl	*79*		*70 - 130*	*02/27/25 10:02*	*03/05/25 02:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			03/01/25 04:45	1

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-54966-10
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:10	02/28/25 01:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:10	02/28/25 01:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:10	02/28/25 01:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/27/25 11:10	02/28/25 01:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:10	02/28/25 01:40	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/27/25 11:10	02/28/25 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/27/25 11:10*	*02/28/25 01:40*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*02/27/25 11:10*	*02/28/25 01:40*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-54966-10
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/28/25 01:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/05/25 02:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:45	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*02/27/25 10:02*	*03/05/25 02:45*	*1*
o-Terphenyl	*74*		*70 - 130*	*02/27/25 10:02*	*03/05/25 02:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94		mg/Kg			03/01/25 04:52	1

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-54966-11
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:10	02/28/25 03:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:10	02/28/25 03:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:10	02/28/25 03:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/27/25 11:10	02/28/25 03:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:10	02/28/25 03:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/27/25 11:10	02/28/25 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/27/25 11:10*	*02/28/25 03:04*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/27/25 11:10*	*02/28/25 03:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/28/25 03:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/05/25 03:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 03:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 03:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-54966-11
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*02/27/25 10:02*	*03/05/25 03:15*	*1*
o-Terphenyl	*87*		*70 - 130*	*02/27/25 10:02*	*03/05/25 03:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			03/01/25 05:00	1

Client Sample ID: S-2 (5.0')

Lab Sample ID: 880-54966-12
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 03:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 03:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 03:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 03:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 03:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*02/27/25 11:10*	*02/28/25 03:24*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/27/25 11:10*	*02/28/25 03:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 03:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/05/25 03:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 03:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 03:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*02/27/25 10:02*	*03/05/25 03:29*	*1*
o-Terphenyl	*83*		*70 - 130*	*02/27/25 10:02*	*03/05/25 03:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/01/25 05:07	1

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-3 (0-1.0')

Lab Sample ID: 880-54966-13
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 03:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 03:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 03:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/28/25 03:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 03:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/28/25 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/27/25 11:10*	*02/28/25 03:45*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/27/25 11:10*	*02/28/25 03:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/25 03:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**63.8**		50.1		mg/Kg			03/05/25 16:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/05/25 10:45	03/05/25 16:03	1
Diesel Range Organics (Over C10-C28)	**63.8**		50.1		mg/Kg		03/05/25 10:45	03/05/25 16:03	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/05/25 10:45	03/05/25 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*03/05/25 10:45*	*03/05/25 16:03*	*1*
o-Terphenyl	*86*		*70 - 130*	*03/05/25 10:45*	*03/05/25 16:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.90	U	9.90		mg/Kg			03/01/25 05:14	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-54966-14
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 04:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 04:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 04:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/28/25 04:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 04:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/28/25 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/27/25 11:10*	*02/28/25 04:05*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*02/27/25 11:10*	*02/28/25 04:05*	*1*

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Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-54966-14
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/25 04:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/05/25 03:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 03:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 03:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*02/27/25 10:02*	*03/05/25 03:59*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/27/25 10:02*	*03/05/25 03:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			03/01/25 02:58	1

Client Sample ID: S-3 (2.0')

Lab Sample ID: 880-54966-15
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/27/25 11:10	02/28/25 04:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/27/25 11:10	02/28/25 04:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/27/25 11:10	02/28/25 04:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/27/25 11:10	02/28/25 04:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/27/25 11:10	02/28/25 04:26	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/27/25 11:10	02/28/25 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*02/27/25 11:10*	*02/28/25 04:26*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/27/25 11:10*	*02/28/25 04:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/28/25 04:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/05/25 04:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 04:14	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 04:14	1

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-3 (2.0')

Lab Sample ID: 880-54966-15
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*02/27/25 10:02*	*03/05/25 04:14*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/27/25 10:02*	*03/05/25 04:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/01/25 03:16	1

Client Sample ID: S-3 (3.0')

Lab Sample ID: 880-54966-16
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 04:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 04:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 04:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/27/25 11:10	02/28/25 04:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 04:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/27/25 11:10	02/28/25 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/27/25 11:10*	*02/28/25 04:47*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/27/25 11:10*	*02/28/25 04:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/28/25 04:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/05/25 04:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 04:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 04:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*02/27/25 10:02*	*03/05/25 04:29*	*1*
o-Terphenyl	*85*		*70 - 130*	*02/27/25 10:02*	*03/05/25 04:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			03/01/25 03:22	1

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-3 (4.0')

Lab Sample ID: 880-54966-17
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 05:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 05:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 05:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 05:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 05:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*02/27/25 11:10*	*02/28/25 05:07*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/27/25 11:10*	*02/28/25 05:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 05:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/05/25 04:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 04:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 04:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/25 10:02	03/05/25 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*02/27/25 10:02*	*03/05/25 04:43*	*1*
o-Terphenyl	*87*		*70 - 130*	*02/27/25 10:02*	*03/05/25 04:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			03/01/25 03:28	1

Client Sample ID: S-3 (5.0')

Lab Sample ID: 880-54966-18
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 05:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 05:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 05:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/28/25 05:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 05:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/28/25 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*02/27/25 11:10*	*02/28/25 05:28*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/27/25 11:10*	*02/28/25 05:28*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-3 (5.0')

Lab Sample ID: 880-54966-18
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/25 05:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/05/25 04:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 04:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 04:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*02/27/25 10:02*	*03/05/25 04:59*	*1*
o-Terphenyl	*82*		*70 - 130*	*02/27/25 10:02*	*03/05/25 04:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.1**		9.94		mg/Kg			03/01/25 03:34	1

Client Sample ID: S-4 (0-1.0')

Lab Sample ID: 880-54966-19
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 05:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 05:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 05:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/28/25 05:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:10	02/28/25 05:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:10	02/28/25 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/27/25 11:10*	*02/28/25 05:48*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*02/27/25 11:10*	*02/28/25 05:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/25 05:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/05/25 05:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 05:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 05:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-4 (0-1.0')

Lab Sample ID: 880-54966-19
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 05:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*02/27/25 10:02*	*03/05/25 05:13*	*1*
o-Terphenyl	*82*		*70 - 130*	*02/27/25 10:02*	*03/05/25 05:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			03/01/25 03:53	1

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-54966-20
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 06:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 06:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 06:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 06:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 06:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*02/27/25 11:10*	*02/28/25 06:09*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/27/25 11:10*	*02/28/25 06:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 06:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/05/25 05:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 05:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 05:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 05:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*02/27/25 10:02*	*03/05/25 05:29*	*1*
o-Terphenyl	*78*		*70 - 130*	*02/27/25 10:02*	*03/05/25 05:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/01/25 03:59	1

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-4 (2.0')

Lab Sample ID: 880-54966-21
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:18	02/28/25 06:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:18	02/28/25 06:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:18	02/28/25 06:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:18	02/28/25 06:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:18	02/28/25 06:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:18	02/28/25 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*255*	*S1+*	*70 - 130*	*02/27/25 11:18*	*02/28/25 06:43*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*02/27/25 11:18*	*02/28/25 06:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/25 06:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/01/25 01:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/25 15:27	03/01/25 01:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 15:27	03/01/25 01:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 15:27	03/01/25 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*02/27/25 15:27*	*03/01/25 01:08*	*1*
o-Terphenyl	*119*		*70 - 130*	*02/27/25 15:27*	*03/01/25 01:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94		mg/Kg			03/01/25 04:05	1

Client Sample ID: S-4 (3.0')

Lab Sample ID: 880-54966-22
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:18	02/28/25 07:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:18	02/28/25 07:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:18	02/28/25 07:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:18	02/28/25 07:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:18	02/28/25 07:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:18	02/28/25 07:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*02/27/25 11:18*	*02/28/25 07:03*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/27/25 11:18*	*02/28/25 07:03*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-4 (3.0')

Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Lab Sample ID: 880-54966-22

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/25 07:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/01/25 01:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/25 15:27	03/01/25 01:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/25 15:27	03/01/25 01:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/25 15:27	03/01/25 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*02/27/25 15:27*	*03/01/25 01:56*	*1*
o-Terphenyl	*118*		*70 - 130*	*02/27/25 15:27*	*03/01/25 01:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			03/01/25 04:11	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-54966-1	S-1 (0-1.0')	86	98
880-54966-1 MS	S-1 (0-1.0')	91	93
880-54966-1 MSD	S-1 (0-1.0')	106	107
880-54966-2	S-1 (1.5')	90	95
880-54966-3	S-1 (2.0')	74	77
880-54966-4	S-1 (3.0')	90	98
880-54966-5	S-1 (4.0')	93	98
880-54966-6	S-1 (5.0')	106	92
880-54966-7	S-2 (0-1.0')	96	91
880-54966-8	S-2 (1.5')	102	87
880-54966-9	S-2 (2.0')	100	89
880-54966-10	S-2 (3.0')	96	76
880-54966-11	S-2 (4.0')	106	84
880-54966-12	S-2 (5.0')	90	95
880-54966-13	S-3 (0-1.0')	99	90
880-54966-14	S-3 (1.5')	102	85
880-54966-15	S-3 (2.0')	95	98
880-54966-16	S-3 (3.0')	99	100
880-54966-17	S-3 (4.0')	90	95
880-54966-18	S-3 (5.0')	94	99
880-54966-19	S-4 (0-1.0')	104	86
880-54966-20	S-4 (1.5')	95	101
880-54966-21	S-4 (2.0')	255 S1+	117
880-54966-22	S-4 (3.0')	127	102
880-54967-A-1-C MS	Matrix Spike	240 S1+	77
880-54967-A-1-D MSD	Matrix Spike Duplicate	91	114
LCS 880-103853/1-A	Lab Control Sample	113	101
LCS 880-103855/1-A	Lab Control Sample	118	102
LCSD 880-103853/2-A	Lab Control Sample Dup	106	110
LCSD 880-103855/2-A	Lab Control Sample Dup	110	95
MB 880-103803/5-A	Method Blank	149 S1+	94
MB 880-103821/5-A	Method Blank	87	95
MB 880-103853/5-A	Method Blank	86	96
MB 880-103855/5-A	Method Blank	214 S1+	124

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-54966-1	S-1 (0-1.0')	95	90
880-54966-2	S-1 (1.5')	98	97
880-54966-3	S-1 (2.0')	91	89
880-54966-4	S-1 (3.0')	96	86
880-54966-4 MS	S-1 (3.0')	105	88

Surrogate Summary

Client: Carmona Resources Job ID: 880-54966-1
Project/Site: Benson Shugart Waterflood Unit #011 SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-54966-4 MSD	S-1 (3.0')	104	90								
880-54966-5	S-1 (4.0')	90	80								
880-54966-6	S-1 (5.0')	99	88								
880-54966-7	S-2 (0-1.0')	90	84								
880-54966-8	S-2 (1.5')	90	82								
880-54966-9	S-2 (2.0')	85	79								
880-54966-10	S-2 (3.0')	85	74								
880-54966-11	S-2 (4.0')	99	87								
880-54966-12	S-2 (5.0')	93	83								
880-54966-13	S-3 (0-1.0')	88	86								
880-54966-14	S-3 (1.5')	92	81								
880-54966-15	S-3 (2.0')	91	81								
880-54966-16	S-3 (3.0')	94	85								
880-54966-17	S-3 (4.0')	95	87								
880-54966-18	S-3 (5.0')	92	82								
880-54966-19	S-4 (0-1.0')	92	82								
880-54966-20	S-4 (1.5')	88	78								
880-54966-21	S-4 (2.0')	134 S1+	119								
880-54966-21 MS	S-4 (2.0')	114	113								
880-54966-21 MSD	S-4 (2.0')	113	110								
880-54966-22	S-4 (3.0')	134 S1+	118								
890-7751-A-1-F MS	Matrix Spike	112	99								
890-7751-A-1-G MSD	Matrix Spike Duplicate	108	96								
LCS 880-103839/2-A	Lab Control Sample	120	107								
LCS 880-103891/2-A	Lab Control Sample	78	66 S1-								
LCS 880-104388/2-A	Lab Control Sample	90	80								
LCSD 880-103839/3-A	Lab Control Sample Dup	121	109								
LCSD 880-103891/3-A	Lab Control Sample Dup	65 S1-	67 S1-								
LCSD 880-104388/3-A	Lab Control Sample Dup	97	86								
MB 880-103839/1-A	Method Blank	134 S1+	120								
MB 880-103891/1-A	Method Blank	90	80								
MB 880-104388/1-A	Method Blank	142 S1+	126								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-103803/5-A
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 08:15	02/27/25 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*02/27/25 08:15*	*02/27/25 13:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/27/25 08:15*	*02/27/25 13:03*	*1*

Lab Sample ID: MB 880-103821/5-A
Matrix: Solid
Analysis Batch: 103810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:47	02/27/25 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:47	02/27/25 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:47	02/27/25 11:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 08:47	02/27/25 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:47	02/27/25 11:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 08:47	02/27/25 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*02/27/25 08:47*	*02/27/25 11:34*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/27/25 08:47*	*02/27/25 11:34*	*1*

Lab Sample ID: MB 880-103853/5-A
Matrix: Solid
Analysis Batch: 103810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 22:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 22:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 22:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 11:10	02/27/25 22:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 22:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 11:10	02/27/25 22:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*02/27/25 11:10*	*02/27/25 22:13*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/27/25 11:10*	*02/27/25 22:13*	*1*

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-103853/1-A
Matrix: Solid
Analysis Batch: 103810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103853

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1145		mg/Kg		114	70 - 130		
Toluene			0.100	0.09592		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.1032		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene			0.200	0.2431		mg/Kg		122	70 - 130		
o-Xylene			0.100	0.1208		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-103853/2-A
Matrix: Solid
Analysis Batch: 103810

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103853

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1179		mg/Kg		118	70 - 130	3	35
Toluene			0.100	0.09882		mg/Kg		99	70 - 130	3	35
Ethylbenzene			0.100	0.1022		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2116		mg/Kg		106	70 - 130	14	35
o-Xylene			0.100	0.1065		mg/Kg		107	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-54966-1 MS
Matrix: Solid
Analysis Batch: 103810

Client Sample ID: S-1 (0-1.0')
Prep Type: Total/NA
Prep Batch: 103853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.100	0.07894		mg/Kg		79	70 - 130		
Toluene	<0.00199	U F1	0.100	0.05791	F1	mg/Kg		58	70 - 130		
Ethylbenzene	<0.00199	U F1	0.100	0.04722	F1	mg/Kg		47	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.09033	F1	mg/Kg		45	70 - 130		
o-Xylene	<0.00199	U F1	0.100	0.04367	F1	mg/Kg		44	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-54966-1 MSD
Matrix: Solid
Analysis Batch: 103810

Client Sample ID: S-1 (0-1.0')
Prep Type: Total/NA
Prep Batch: 103853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09016		mg/Kg		90	70 - 130	13	35
Toluene	<0.00199	U F1	0.100	0.06285	F1	mg/Kg		63	70 - 130	8	35
Ethylbenzene	<0.00199	U F1	0.100	0.06043	F1	mg/Kg		60	70 - 130	25	35

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-54966-1 MSD
Matrix: Solid
Analysis Batch: 103810

Client Sample ID: S-1 (0-1.0')
Prep Type: Total/NA
Prep Batch: 103853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.09914	F1	mg/Kg		50	70 - 130	9	35
o-Xylene	<0.00199	U F1	0.100	0.04789	F1	mg/Kg		48	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 880-103855/5-A
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 00:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 00:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 00:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 11:18	02/28/25 00:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 00:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 11:18	02/28/25 00:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*214*	*S1+*	*70 - 130*	*02/27/25 11:18*	*02/28/25 00:39*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*02/27/25 11:18*	*02/28/25 00:39*	*1*

Lab Sample ID: LCS 880-103855/1-A
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1185		mg/Kg		119	70 - 130
Toluene	0.100	0.1144		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1191		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2589		mg/Kg		129	70 - 130
o-Xylene	0.100	0.1260		mg/Kg		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-103855/2-A
Matrix: Solid
Analysis Batch: 103811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103855

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1174		mg/Kg		117	70 - 130	1	35
Toluene	0.100	0.1180		mg/Kg		118	70 - 130	3	35
Ethylbenzene	0.100	0.1241		mg/Kg		124	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2464		mg/Kg		123	70 - 130	5	35
o-Xylene	0.100	0.1175		mg/Kg		117	70 - 130	7	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-54967-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103811 — **Prep Batch: 103855**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1 F2	0.100	0.01669	F1	mg/Kg		17	70 - 130
Toluene	<0.00199	U F1 F2	0.100	0.02008	F1	mg/Kg		20	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.03342	F1	mg/Kg		33	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1191	F1	mg/Kg		60	70 - 130
o-Xylene	<0.00199	U F1 F2	0.100	0.06596	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	240	S1+	70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: 880-54967-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103811 — **Prep Batch: 103855**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.100	0.06815	F1 F2	mg/Kg		68	70 - 130	121	35
Toluene	<0.00199	U F1 F2	0.100	0.03645	F1 F2	mg/Kg		36	70 - 130	58	35
Ethylbenzene	<0.00199	U F1 F2	0.100	0.02235	F1 F2	mg/Kg		22	70 - 130	40	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.04754	F1 F2	mg/Kg		24	70 - 130	86	35
o-Xylene	<0.00199	U F1 F2	0.100	0.02430	F1 F2	mg/Kg		24	70 - 130	92	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-103839/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 104310 — **Prep Batch: 103839**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/25 10:01	03/04/25 23:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 10:01	03/04/25 23:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 10:01	03/04/25 23:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	02/27/25 10:01	03/04/25 23:18	1
o-Terphenyl	120		70 - 130	02/27/25 10:01	03/04/25 23:18	1

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-103839/2-A
Matrix: Solid
Analysis Batch: 104310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103839

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1278		mg/Kg		128	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1201		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-103839/3-A
Matrix: Solid
Analysis Batch: 104310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103839

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1296		mg/Kg		130	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1285		mg/Kg		129	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*121*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: 880-54966-4 MS
Matrix: Solid
Analysis Batch: 104310

Client Sample ID: S-1 (3.0')
Prep Type: Total/NA
Prep Batch: 103839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	865.2		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	810.3		mg/Kg		81	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 880-54966-4 MSD
Matrix: Solid
Analysis Batch: 104310

Client Sample ID: S-1 (3.0')
Prep Type: Total/NA
Prep Batch: 103839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	878.7		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	817.8		mg/Kg		82	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-54966-4 MSD
Matrix: Solid
Analysis Batch: 104310

Client Sample ID: S-1 (3.0')
Prep Type: Total/NA
Prep Batch: 103839

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	90		70 - 130

Lab Sample ID: MB 880-103891/1-A
Matrix: Solid
Analysis Batch: 103976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/25 14:54	03/01/25 00:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 14:54	03/01/25 00:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 14:54	03/01/25 00:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	02/27/25 14:54	03/01/25 00:18	1
o-Terphenyl	80		70 - 130	02/27/25 14:54	03/01/25 00:18	1

Lab Sample ID: LCS 880-103891/2-A
Matrix: Solid
Analysis Batch: 103976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103891

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	886.2		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	820.5		mg/Kg		82	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	66	S1-	70 - 130

Lab Sample ID: LCSD 880-103891/3-A
Matrix: Solid
Analysis Batch: 103976

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103891

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	900.7		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	880.5		mg/Kg		88	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	65	S1-	70 - 130
o-Terphenyl	67	S1-	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-54966-21 MS — **Client Sample ID: S-4 (2.0')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103976 — **Prep Batch: 103891**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	697.2		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	732.7		mg/Kg		73	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 880-54966-21 MSD — **Client Sample ID: S-4 (2.0')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103976 — **Prep Batch: 103891**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	714.0		mg/Kg		72	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	711.0		mg/Kg		71	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*113*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: MB 880-104388/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 104413 — **Prep Batch: 104388**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/05/25 07:53	03/05/25 06:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/05/25 07:53	03/05/25 06:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/05/25 07:53	03/05/25 06:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*03/05/25 07:53*	*03/05/25 06:43*	*1*
o-Terphenyl	*126*		*70 - 130*	*03/05/25 07:53*	*03/05/25 06:43*	*1*

Lab Sample ID: LCS 880-104388/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 104413 — **Prep Batch: 104388**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1032		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1028		mg/Kg		103	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-104388/2-A
Matrix: Solid
Analysis Batch: 104413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104388

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-104388/3-A
Matrix: Solid
Analysis Batch: 104413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 104388

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1014		mg/Kg		101	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1080		mg/Kg		108	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-7751-A-1-F MS
Matrix: Solid
Analysis Batch: 104413

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 104388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1290		mg/Kg		129	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1237		mg/Kg		124	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-7751-A-1-G MSD
Matrix: Solid
Analysis Batch: 104413

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 104388

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1202		mg/Kg		120	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1112		mg/Kg		111	70 - 130	11	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	96		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103862/1-A
Matrix: Solid
Analysis Batch: 103908

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/01/25 01:33	1

Lab Sample ID: LCS 880-103862/2-A
Matrix: Solid
Analysis Batch: 103908

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-103862/3-A
Matrix: Solid
Analysis Batch: 103908

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.2		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-54966-4 MS
Matrix: Solid
Analysis Batch: 103908

Client Sample ID: S-1 (3.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<9.94	U	249	262.6		mg/Kg		106	90 - 110

Lab Sample ID: 880-54966-4 MSD
Matrix: Solid
Analysis Batch: 103908

Client Sample ID: S-1 (3.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<9.94	U	249	263.2		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-103863/1-A
Matrix: Solid
Analysis Batch: 103988

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/01/25 02:40	1

Lab Sample ID: LCS 880-103863/2-A
Matrix: Solid
Analysis Batch: 103988

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.3		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-103863/3-A
Matrix: Solid
Analysis Batch: 103988

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.9		mg/Kg		95	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-54966-14 MS
Matrix: Solid
Analysis Batch: 103988

Client Sample ID: S-3 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<10.1	U	252	250.9		mg/Kg		96	90 - 110

Lab Sample ID: 880-54966-14 MSD
Matrix: Solid
Analysis Batch: 103988

Client Sample ID: S-3 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.1	U	252	251.9		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

GC VOA

Prep Batch: 103803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-103803/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 103810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-1	S-1 (0-1.0')	Total/NA	Solid	8021B	103853
880-54966-2	S-1 (1.5')	Total/NA	Solid	8021B	103853
880-54966-3	S-1 (2.0')	Total/NA	Solid	8021B	103853
880-54966-4	S-1 (3.0')	Total/NA	Solid	8021B	103853
880-54966-5	S-1 (4.0')	Total/NA	Solid	8021B	103853
880-54966-6	S-1 (5.0')	Total/NA	Solid	8021B	103853
880-54966-7	S-2 (0-1.0')	Total/NA	Solid	8021B	103853
880-54966-8	S-2 (1.5')	Total/NA	Solid	8021B	103853
880-54966-9	S-2 (2.0')	Total/NA	Solid	8021B	103853
880-54966-10	S-2 (3.0')	Total/NA	Solid	8021B	103853
880-54966-11	S-2 (4.0')	Total/NA	Solid	8021B	103853
880-54966-12	S-2 (5.0')	Total/NA	Solid	8021B	103853
880-54966-13	S-3 (0-1.0')	Total/NA	Solid	8021B	103853
880-54966-14	S-3 (1.5')	Total/NA	Solid	8021B	103853
880-54966-15	S-3 (2.0')	Total/NA	Solid	8021B	103853
880-54966-16	S-3 (3.0')	Total/NA	Solid	8021B	103853
880-54966-17	S-3 (4.0')	Total/NA	Solid	8021B	103853
880-54966-18	S-3 (5.0')	Total/NA	Solid	8021B	103853
880-54966-19	S-4 (0-1.0')	Total/NA	Solid	8021B	103853
880-54966-20	S-4 (1.5')	Total/NA	Solid	8021B	103853
MB 880-103821/5-A	Method Blank	Total/NA	Solid	8021B	103821
MB 880-103853/5-A	Method Blank	Total/NA	Solid	8021B	103853
LCS 880-103853/1-A	Lab Control Sample	Total/NA	Solid	8021B	103853
LCSD 880-103853/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103853
880-54966-1 MS	S-1 (0-1.0')	Total/NA	Solid	8021B	103853
880-54966-1 MSD	S-1 (0-1.0')	Total/NA	Solid	8021B	103853

Analysis Batch: 103811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-21	S-4 (2.0')	Total/NA	Solid	8021B	103855
880-54966-22	S-4 (3.0')	Total/NA	Solid	8021B	103855
MB 880-103803/5-A	Method Blank	Total/NA	Solid	8021B	103803
MB 880-103855/5-A	Method Blank	Total/NA	Solid	8021B	103855
LCS 880-103855/1-A	Lab Control Sample	Total/NA	Solid	8021B	103855
LCSD 880-103855/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103855
880-54967-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	103855
880-54967-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	103855

Prep Batch: 103821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-103821/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 103853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-1	S-1 (0-1.0')	Total/NA	Solid	5035	
880-54966-2	S-1 (1.5')	Total/NA	Solid	5035	
880-54966-3	S-1 (2.0')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

GC VOA (Continued)

Prep Batch: 103853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-4	S-1 (3.0')	Total/NA	Solid	5035	
880-54966-5	S-1 (4.0')	Total/NA	Solid	5035	
880-54966-6	S-1 (5.0')	Total/NA	Solid	5035	
880-54966-7	S-2 (0-1.0')	Total/NA	Solid	5035	
880-54966-8	S-2 (1.5')	Total/NA	Solid	5035	
880-54966-9	S-2 (2.0')	Total/NA	Solid	5035	
880-54966-10	S-2 (3.0')	Total/NA	Solid	5035	
880-54966-11	S-2 (4.0')	Total/NA	Solid	5035	
880-54966-12	S-2 (5.0')	Total/NA	Solid	5035	
880-54966-13	S-3 (0-1.0')	Total/NA	Solid	5035	
880-54966-14	S-3 (1.5')	Total/NA	Solid	5035	
880-54966-15	S-3 (2.0')	Total/NA	Solid	5035	
880-54966-16	S-3 (3.0')	Total/NA	Solid	5035	
880-54966-17	S-3 (4.0')	Total/NA	Solid	5035	
880-54966-18	S-3 (5.0')	Total/NA	Solid	5035	
880-54966-19	S-4 (0-1.0')	Total/NA	Solid	5035	
880-54966-20	S-4 (1.5')	Total/NA	Solid	5035	
MB 880-103853/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103853/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103853/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-54966-1 MS	S-1 (0-1.0')	Total/NA	Solid	5035	
880-54966-1 MSD	S-1 (0-1.0')	Total/NA	Solid	5035	

Prep Batch: 103855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-21	S-4 (2.0')	Total/NA	Solid	5035	
880-54966-22	S-4 (3.0')	Total/NA	Solid	5035	
MB 880-103855/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103855/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103855/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-54967-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-54967-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 104021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-1	S-1 (0-1.0')	Total/NA	Solid	Total BTEX	
880-54966-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-54966-3	S-1 (2.0')	Total/NA	Solid	Total BTEX	
880-54966-4	S-1 (3.0')	Total/NA	Solid	Total BTEX	
880-54966-5	S-1 (4.0')	Total/NA	Solid	Total BTEX	
880-54966-6	S-1 (5.0')	Total/NA	Solid	Total BTEX	
880-54966-7	S-2 (0-1.0')	Total/NA	Solid	Total BTEX	
880-54966-8	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-54966-9	S-2 (2.0')	Total/NA	Solid	Total BTEX	
880-54966-10	S-2 (3.0')	Total/NA	Solid	Total BTEX	
880-54966-11	S-2 (4.0')	Total/NA	Solid	Total BTEX	
880-54966-12	S-2 (5.0')	Total/NA	Solid	Total BTEX	
880-54966-13	S-3 (0-1.0')	Total/NA	Solid	Total BTEX	
880-54966-14	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-54966-15	S-3 (2.0')	Total/NA	Solid	Total BTEX	
880-54966-16	S-3 (3.0')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 104021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-17	S-3 (4.0')	Total/NA	Solid	Total BTEX	
880-54966-18	S-3 (5.0')	Total/NA	Solid	Total BTEX	
880-54966-19	S-4 (0-1.0')	Total/NA	Solid	Total BTEX	
880-54966-20	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-54966-21	S-4 (2.0')	Total/NA	Solid	Total BTEX	
880-54966-22	S-4 (3.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 103839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-3	S-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-54966-4	S-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-54966-5	S-1 (4.0')	Total/NA	Solid	8015NM Prep	
880-54966-6	S-1 (5.0')	Total/NA	Solid	8015NM Prep	
880-54966-7	S-2 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-54966-8	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-54966-9	S-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-54966-10	S-2 (3.0')	Total/NA	Solid	8015NM Prep	
880-54966-11	S-2 (4.0')	Total/NA	Solid	8015NM Prep	
880-54966-12	S-2 (5.0')	Total/NA	Solid	8015NM Prep	
880-54966-14	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-54966-15	S-3 (2.0')	Total/NA	Solid	8015NM Prep	
880-54966-16	S-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-54966-17	S-3 (4.0')	Total/NA	Solid	8015NM Prep	
880-54966-18	S-3 (5.0')	Total/NA	Solid	8015NM Prep	
880-54966-19	S-4 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-54966-20	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-103839/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103839/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103839/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54966-4 MS	S-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-54966-4 MSD	S-1 (3.0')	Total/NA	Solid	8015NM Prep	

Prep Batch: 103891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-21	S-4 (2.0')	Total/NA	Solid	8015NM Prep	
880-54966-22	S-4 (3.0')	Total/NA	Solid	8015NM Prep	
MB 880-103891/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103891/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103891/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54966-21 MS	S-4 (2.0')	Total/NA	Solid	8015NM Prep	
880-54966-21 MSD	S-4 (2.0')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-21	S-4 (2.0')	Total/NA	Solid	8015B NM	103891
880-54966-22	S-4 (3.0')	Total/NA	Solid	8015B NM	103891
MB 880-103891/1-A	Method Blank	Total/NA	Solid	8015B NM	103891
LCS 880-103891/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103891
LCSD 880-103891/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103891

QC Association Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 103976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-21 MS	S-4 (2.0')	Total/NA	Solid	8015B NM	103891
880-54966-21 MSD	S-4 (2.0')	Total/NA	Solid	8015B NM	103891

Analysis Batch: 104226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-1	S-1 (0-1.0')	Total/NA	Solid	8015 NM	
880-54966-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-54966-3	S-1 (2.0')	Total/NA	Solid	8015 NM	
880-54966-4	S-1 (3.0')	Total/NA	Solid	8015 NM	
880-54966-5	S-1 (4.0')	Total/NA	Solid	8015 NM	
880-54966-6	S-1 (5.0')	Total/NA	Solid	8015 NM	
880-54966-7	S-2 (0-1.0')	Total/NA	Solid	8015 NM	
880-54966-8	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-54966-9	S-2 (2.0')	Total/NA	Solid	8015 NM	
880-54966-10	S-2 (3.0')	Total/NA	Solid	8015 NM	
880-54966-11	S-2 (4.0')	Total/NA	Solid	8015 NM	
880-54966-12	S-2 (5.0')	Total/NA	Solid	8015 NM	
880-54966-13	S-3 (0-1.0')	Total/NA	Solid	8015 NM	
880-54966-14	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-54966-15	S-3 (2.0')	Total/NA	Solid	8015 NM	
880-54966-16	S-3 (3.0')	Total/NA	Solid	8015 NM	
880-54966-17	S-3 (4.0')	Total/NA	Solid	8015 NM	
880-54966-18	S-3 (5.0')	Total/NA	Solid	8015 NM	
880-54966-19	S-4 (0-1.0')	Total/NA	Solid	8015 NM	
880-54966-20	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-54966-21	S-4 (2.0')	Total/NA	Solid	8015 NM	
880-54966-22	S-4 (3.0')	Total/NA	Solid	8015 NM	

Analysis Batch: 104310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-3	S-1 (2.0')	Total/NA	Solid	8015B NM	103839
880-54966-4	S-1 (3.0')	Total/NA	Solid	8015B NM	103839
880-54966-5	S-1 (4.0')	Total/NA	Solid	8015B NM	103839
880-54966-6	S-1 (5.0')	Total/NA	Solid	8015B NM	103839
880-54966-7	S-2 (0-1.0')	Total/NA	Solid	8015B NM	103839
880-54966-8	S-2 (1.5')	Total/NA	Solid	8015B NM	103839
880-54966-9	S-2 (2.0')	Total/NA	Solid	8015B NM	103839
880-54966-10	S-2 (3.0')	Total/NA	Solid	8015B NM	103839
880-54966-11	S-2 (4.0')	Total/NA	Solid	8015B NM	103839
880-54966-12	S-2 (5.0')	Total/NA	Solid	8015B NM	103839
880-54966-14	S-3 (1.5')	Total/NA	Solid	8015B NM	103839
880-54966-15	S-3 (2.0')	Total/NA	Solid	8015B NM	103839
880-54966-16	S-3 (3.0')	Total/NA	Solid	8015B NM	103839
880-54966-17	S-3 (4.0')	Total/NA	Solid	8015B NM	103839
880-54966-18	S-3 (5.0')	Total/NA	Solid	8015B NM	103839
880-54966-19	S-4 (0-1.0')	Total/NA	Solid	8015B NM	103839
880-54966-20	S-4 (1.5')	Total/NA	Solid	8015B NM	103839
MB 880-103839/1-A	Method Blank	Total/NA	Solid	8015B NM	103839
LCS 880-103839/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103839
LCSD 880-103839/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103839
880-54966-4 MS	S-1 (3.0')	Total/NA	Solid	8015B NM	103839

QC Association Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 104310 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-4 MSD	S-1 (3.0')	Total/NA	Solid	8015B NM	103839

Prep Batch: 104388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-1	S-1 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-54966-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-54966-13	S-3 (0-1.0')	Total/NA	Solid	8015NM Prep	
MB 880-104388/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104388/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104388/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7751-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7751-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 104413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-1	S-1 (0-1.0')	Total/NA	Solid	8015B NM	104388
880-54966-2	S-1 (1.5')	Total/NA	Solid	8015B NM	104388
880-54966-13	S-3 (0-1.0')	Total/NA	Solid	8015B NM	104388
MB 880-104388/1-A	Method Blank	Total/NA	Solid	8015B NM	104388
LCS 880-104388/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104388
LCSD 880-104388/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104388
890-7751-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	104388
890-7751-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104388

HPLC/IC

Leach Batch: 103862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-1	S-1 (0-1.0')	Soluble	Solid	DI Leach	
880-54966-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-54966-3	S-1 (2.0')	Soluble	Solid	DI Leach	
880-54966-4	S-1 (3.0')	Soluble	Solid	DI Leach	
880-54966-5	S-1 (4.0')	Soluble	Solid	DI Leach	
880-54966-6	S-1 (5.0')	Soluble	Solid	DI Leach	
880-54966-7	S-2 (0-1.0')	Soluble	Solid	DI Leach	
880-54966-8	S-2 (1.5')	Soluble	Solid	DI Leach	
880-54966-9	S-2 (2.0')	Soluble	Solid	DI Leach	
880-54966-10	S-2 (3.0')	Soluble	Solid	DI Leach	
880-54966-11	S-2 (4.0')	Soluble	Solid	DI Leach	
880-54966-12	S-2 (5.0')	Soluble	Solid	DI Leach	
880-54966-13	S-3 (0-1.0')	Soluble	Solid	DI Leach	
MB 880-103862/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103862/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103862/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54966-4 MS	S-1 (3.0')	Soluble	Solid	DI Leach	
880-54966-4 MSD	S-1 (3.0')	Soluble	Solid	DI Leach	

Leach Batch: 103863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-14	S-3 (1.5')	Soluble	Solid	DI Leach	
880-54966-15	S-3 (2.0')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 103863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-16	S-3 (3.0')	Soluble	Solid	DI Leach	
880-54966-17	S-3 (4.0')	Soluble	Solid	DI Leach	
880-54966-18	S-3 (5.0')	Soluble	Solid	DI Leach	
880-54966-19	S-4 (0-1.0')	Soluble	Solid	DI Leach	
880-54966-20	S-4 (1.5')	Soluble	Solid	DI Leach	
880-54966-21	S-4 (2.0')	Soluble	Solid	DI Leach	
880-54966-22	S-4 (3.0')	Soluble	Solid	DI Leach	
MB 880-103863/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103863/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103863/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54966-14 MS	S-3 (1.5')	Soluble	Solid	DI Leach	
880-54966-14 MSD	S-3 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 103908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-1	S-1 (0-1.0')	Soluble	Solid	300.0	103862
880-54966-2	S-1 (1.5')	Soluble	Solid	300.0	103862
880-54966-3	S-1 (2.0')	Soluble	Solid	300.0	103862
880-54966-4	S-1 (3.0')	Soluble	Solid	300.0	103862
880-54966-5	S-1 (4.0')	Soluble	Solid	300.0	103862
880-54966-6	S-1 (5.0')	Soluble	Solid	300.0	103862
880-54966-7	S-2 (0-1.0')	Soluble	Solid	300.0	103862
880-54966-8	S-2 (1.5')	Soluble	Solid	300.0	103862
880-54966-9	S-2 (2.0')	Soluble	Solid	300.0	103862
880-54966-10	S-2 (3.0')	Soluble	Solid	300.0	103862
880-54966-11	S-2 (4.0')	Soluble	Solid	300.0	103862
880-54966-12	S-2 (5.0')	Soluble	Solid	300.0	103862
880-54966-13	S-3 (0-1.0')	Soluble	Solid	300.0	103862
MB 880-103862/1-A	Method Blank	Soluble	Solid	300.0	103862
LCS 880-103862/2-A	Lab Control Sample	Soluble	Solid	300.0	103862
LCSD 880-103862/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103862
880-54966-4 MS	S-1 (3.0')	Soluble	Solid	300.0	103862
880-54966-4 MSD	S-1 (3.0')	Soluble	Solid	300.0	103862

Analysis Batch: 103988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54966-14	S-3 (1.5')	Soluble	Solid	300.0	103863
880-54966-15	S-3 (2.0')	Soluble	Solid	300.0	103863
880-54966-16	S-3 (3.0')	Soluble	Solid	300.0	103863
880-54966-17	S-3 (4.0')	Soluble	Solid	300.0	103863
880-54966-18	S-3 (5.0')	Soluble	Solid	300.0	103863
880-54966-19	S-4 (0-1.0')	Soluble	Solid	300.0	103863
880-54966-20	S-4 (1.5')	Soluble	Solid	300.0	103863
880-54966-21	S-4 (2.0')	Soluble	Solid	300.0	103863
880-54966-22	S-4 (3.0')	Soluble	Solid	300.0	103863
MB 880-103863/1-A	Method Blank	Soluble	Solid	300.0	103863
LCS 880-103863/2-A	Lab Control Sample	Soluble	Solid	300.0	103863
LCSD 880-103863/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103863
880-54966-14 MS	S-3 (1.5')	Soluble	Solid	300.0	103863
880-54966-14 MSD	S-3 (1.5')	Soluble	Solid	300.0	103863

Lab Chronicle

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-1 (0-1.0')

Lab Sample ID: 880-54966-1
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/27/25 22:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/27/25 22:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 15:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104388	03/05/25 10:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104413	03/05/25 15:34	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 03:16	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-54966-2
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/27/25 22:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/27/25 22:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 15:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	104388	03/05/25 10:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104413	03/05/25 15:49	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 03:24	CH	EET MID

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-54966-3
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/27/25 23:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/27/25 23:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 01:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 01:16	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 03:31	CH	EET MID

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-54966-4
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/27/25 23:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/27/25 23:36	AJ	EET MID

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Lab Chronicle

Client: Carmona Resources
Job ID: 880-54966-1
Project/Site: Benson Shugart Waterflood Unit #011
SDG: Eddy County NM

Client Sample ID: S-1 (3.0')
Lab Sample ID: 880-54966-4
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104226	03/05/25 00:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 00:02	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 03:38	CH	EET MID

Client Sample ID: S-1 (4.0')
Lab Sample ID: 880-54966-5
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/27/25 23:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/27/25 23:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 01:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 01:32	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 04:01	CH	EET MID

Client Sample ID: S-1 (5.0')
Lab Sample ID: 880-54966-6
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 00:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 00:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 01:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 01:46	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 04:08	CH	EET MID

Client Sample ID: S-2 (0-1.0')
Lab Sample ID: 880-54966-7
Date Collected: 02/26/25 00:00
Matrix: Solid
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 00:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 00:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 02:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 02:01	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-2 (0-1.0')

Lab Sample ID: 880-54966-7
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 04:30	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-54966-8
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 00:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 00:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 02:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 02:15	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 04:37	CH	EET MID

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-54966-9
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 01:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 01:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 02:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 02:31	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 04:45	CH	EET MID

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-54966-10
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 01:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 01:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 02:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 02:45	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 04:52	CH	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-54966-11
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 03:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 03:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 03:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 03:15	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 05:00	CH	EET MID

Client Sample ID: S-2 (5.0')

Lab Sample ID: 880-54966-12
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 03:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 03:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 03:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 03:29	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 05:07	CH	EET MID

Client Sample ID: S-3 (0-1.0')

Lab Sample ID: 880-54966-13
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 03:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 03:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 16:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	104388	03/05/25 10:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104413	03/05/25 16:03	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	103862	02/27/25 11:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103908	03/01/25 05:14	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-54966-14
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 04:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 04:05	AJ	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-54966-14
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104226	03/05/25 03:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 03:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	103863	02/27/25 11:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103988	03/01/25 02:58	CH	EET MID

Client Sample ID: S-3 (2.0')

Lab Sample ID: 880-54966-15
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 04:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 04:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 04:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 04:14	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103863	02/27/25 11:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103988	03/01/25 03:16	CH	EET MID

Client Sample ID: S-3 (3.0')

Lab Sample ID: 880-54966-16
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 04:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 04:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 04:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 04:29	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103863	02/27/25 11:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103988	03/01/25 03:22	CH	EET MID

Client Sample ID: S-3 (4.0')

Lab Sample ID: 880-54966-17
Matrix: Solid
Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 05:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 05:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 04:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 04:43	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-3 (4.0')

Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Lab Sample ID: 880-54966-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	103863	02/27/25 11:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103988	03/01/25 03:28	CH	EET MID

Client Sample ID: S-3 (5.0')

Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Lab Sample ID: 880-54966-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 05:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 05:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 04:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 04:59	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103863	02/27/25 11:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103988	03/01/25 03:34	CH	EET MID

Client Sample ID: S-4 (0-1.0')

Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Lab Sample ID: 880-54966-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 05:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 05:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 05:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 05:13	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103863	02/27/25 11:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103988	03/01/25 03:53	CH	EET MID

Client Sample ID: S-4 (1.5')

Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Lab Sample ID: 880-54966-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103853	02/27/25 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103810	02/28/25 06:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 06:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/05/25 05:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103839	02/27/25 10:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104310	03/05/25 05:29	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103863	02/27/25 11:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103988	03/01/25 03:59	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Client Sample ID: S-4 (2.0')

Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Lab Sample ID: 880-54966-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103855	02/27/25 11:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103811	02/28/25 06:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 06:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/01/25 01:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103891	02/27/25 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103976	03/01/25 01:08	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103863	02/27/25 11:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103988	03/01/25 04:05	CH	EET MID

Client Sample ID: S-4 (3.0')

Date Collected: 02/26/25 00:00
Date Received: 02/27/25 09:07

Lab Sample ID: 880-54966-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103855	02/27/25 11:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103811	02/28/25 07:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104021	02/28/25 07:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104226	03/01/25 01:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	103891	02/27/25 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103976	03/01/25 01:56	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	103863	02/27/25 11:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103988	03/01/25 04:11	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-54966-1
Project/Site: Benson Shugart Waterflood Unit #011
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-54966-1	S-1 (0-1.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-2	S-1 (1.5')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-3	S-1 (2.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-4	S-1 (3.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-5	S-1 (4.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-6	S-1 (5.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-7	S-2 (0-1.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-8	S-2 (1.5')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-9	S-2 (2.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-10	S-2 (3.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-11	S-2 (4.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-12	S-2 (5.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-13	S-3 (0-1.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-14	S-3 (1.5')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-15	S-3 (2.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-16	S-3 (3.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-17	S-3 (4.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-18	S-3 (5.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-19	S-4 (0-1.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-20	S-4 (1.5')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-21	S-4 (2.0')	Solid	02/26/25 00:00	02/27/25 09:07
880-54966-22	S-4 (3.0')	Solid	02/26/25 00:00	02/27/25 09:07

Chain of Custody

880-54966 Chain of Custody

Page __1__ of __3__

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Benson Shugart Waterflood Unit #011	Turn Around	
Project Number:	2411	☑ Routine ☐ Rush	
Project Location	Eddy Co, NM	Due Date:	Normal
Sampler's Name:	GPJ/RP	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	1R9
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.4
Total Containers:		Corrected Temperature:	0.3

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
S-1 (0-1.0')	2/26/2025		X		G	1		X	X	X		
S-1 (1.5')	2/26/2025		X		G	1		X	X	X		
S-1 (2.0')	2/26/2025		X		G	1		X	X	X		
S-1 (3.0')	2/26/2025		X		G	1		X	X	X		
S-1 (4.0')	2/26/2025		X		G	1		X	X	X		
S-1 (5.0')	2/26/2025		X		G	1		X	X	X		
S-2 (0-1.0')	2/26/2025		X		G	1		X	X	X		
S-2 (1.5')	2/26/2025		X		G	1		X	X	X		
S-2 (2.0')	2/26/2025		X		G	1		X	X	X		
S-2 (3.0')	2/26/2025		X		G	1		X	X	X		

Parameters

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		2.27.25 907	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Chain of Custody

Work Order No: _____

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Benson Shugart Waterflood Unit #011	Turn Around	
Project Number:	2411	☑ Routine ☐ Rush	
Project Location	Eddy Co, NM	Due Date:	Normal
Sampler's Name:	GPJ/RP	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No		Thermometer ID:	
Cooler Custody Seals:	Yes No N/A		Correction Factor:	
Sample Custody Seals:	Yes No N/A		Temperature Reading:	
Total Containers:			Corrected Temperature:	

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
S-2 (4.0')	2/26/2025		X		G	1		X	X	X		
S-2 (5.0')	2/26/2025		X		G	1		X	X	X		
S-3 (0-1.0')	2/26/2025		X		G	1		X	X	X		
S-3 (1.5')	2/26/2025		X		G	1		X	X	X		
S-3 (2.0')	2/26/2025		X		G	1		X	X	X		
S-3 (3.0')	2/26/2025		X		G	1		X	X	X		
S-3 (4.0')	2/26/2025		X		G	1		X	X	X		
S-3 (5.0')	2/26/2025		X		G	1		X	X	X		
S-4 (0-1.0')	2/26/2025		X		G	1		X	X	X		
S-4 (1.5')	2/26/2025		X		G	1		X	X	X		

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Chain of Custody

Work Order No: _____

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Benson Shugart Waterflood Unit #011	Turn Around	
Project Number:	2411	☑ Routine ☐ Rush	
Project Location	Eddy Co, NM	Due Date:	Normal
Sampler's Name:	GPJ/RP	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
S-4 (2.0')	2/26/2025		X		G	1		X	X	X		
S-4 (3.0')	2/26/2025		X		G	1		X	X	X		

ANALYSIS REQUEST / Parameters

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-54966-1
SDG Number: Eddy County NM

Login Number: 54966
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

CARDINAL Laboratories

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

April 04, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BENSON SHUGART WATER FLOOD UNIT #011

Enclosed are the results of analyses for samples received by the laboratory on 04/02/25 16:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: CS - 1 (1.75') (H251958-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	184	92.2	200	0.596	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	178	89.0	200	0.00280	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane *102 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *103 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: CS - 2 (1.75') (H251958-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	184	92.2	200	0.596	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	178	89.0	200	0.00280	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane *106 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *107 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 1 (1.75') (H251958-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	184	92.2	200	0.596	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	178	89.0	200	0.00280	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane *95.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *96.1 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 2 (1.75') (H251958-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	203	101	200	2.68	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	205	102	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane *95.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.7 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 3 (1.75') (H251958-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	203	101	200	2.68	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	205	102	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane *104 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *102 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 4 (1.75') (H251958-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	203	101	200	2.68	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	205	102	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *99.7 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 5 (1.75') (H251958-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	203	101	200	2.68	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	205	102	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane *99.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *99.3 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 6 (1.75') (H251958-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	203	101	200	2.68	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	205	102	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane *104 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *103 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 7 (1.75') (H251958-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	203	101	200	2.68	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	205	102	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane *108 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *108 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 8 (1.75') (H251958-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	203	101	200	2.68	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	205	102	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane *104 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *102 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 9 (1.75') (H251958-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	203	101	200	2.68	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	205	102	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane *110 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *105 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	04/02/2025	Sampling Date:	04/01/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART WATER FLOOD UNIT	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 10 (1.75') (H251958-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	0.452	
Toluene*	<0.050	0.050	04/03/2025	ND	1.93	96.5	2.00	1.09	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	100	2.00	2.18	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.31	105	6.00	1.83	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/03/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	203	101	200	2.68	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	205	102	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane *109 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *106 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H251958

Page 1 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Benson Shugart Waterflood Unit #011	Turn Around	☐ Routine ☑ Rush
Project Number:	2411	Due Date:	48 Hour Rush
Project Location	Eddy Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	KR		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+ 0.3°c
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.9c
Total Containers:		Corrected Temperature:	5.2c

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4300	HOLD	Sample Comments
CS-1 (1.75')	4/1/2025		X		Comp	1		X	X	X		
CS-2 (1.75')	4/1/2025		X		Comp	1		X	X	X		
SW-1 (1.75')	4/1/2025		X		Comp	1		X	X	X		
SW-2 (1.75')	4/1/2025		X		Comp	1		X	X	X		
SW-3 (1.75')	4/1/2025		X		Comp	1		X	X	X		
SW-4 (1.75')	4/1/2025		X		Comp	1		X	X	X		
SW-5 (1.75')	4/1/2025		X		Comp	1		X	X	X		
SW-6 (1.75')	4/1/2025		X		Comp	1		X	X	X		
SW-7 (1.75')	4/1/2025		X		Comp	1		X	X	X		
SW-8 (1.75')	4/1/2025		X		Comp	1		X	X	X		

1 2 3 4 5 6 7 8 9 10

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Rec	Tamara Wallace	4.2.25/1005	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Chain of Custody

Work Order No: H251958

Page 2 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Benson Shugart Waterflood Unit #011	Turn Around	☐ Routine ☑ Rush
Project Number:	2411	Due Date:	48 Hour Rush
Project Location	Eddy Co, NM		TAT starts the day received by the lab, if received by 4:30pm
Sampler's Name:	KR		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+ 0.3°c
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.9
Total Containers:		Corrected Temperature:	5.2

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

	Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
11	SW-9 (1.75')	4/1/2025		X		Comp	1		X	X	X		
12	SW-10 (1.75')	4/1/2025		X		Comp	1		X	X	X		

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Tamara Eldridge	4.2.25/1405	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

CARDINAL Laboratories

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

April 01, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BENSON SHUGART UNIT #11

Enclosed are the results of analyses for samples received by the laboratory on 03/31/25 16:47.

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

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

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

Accreditation applies to public drinking water matrices.

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

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	03/31/2025	Sampling Date:	03/28/2025
Reported:	04/01/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART UNIT #11	Sampling Condition:	Cool & Intact
Project Number:	2411	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: BACKFILL SAMPLE (H251894-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.12	106	2.00	4.01	
Toluene*	<0.050	0.050	03/31/2025	ND	2.16	108	2.00	4.31	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.10	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	6.18	103	6.00	4.18	
Total BTEX	<0.300	0.300	03/31/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/01/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	214	107	200	1.55	
DRO >C10-C28*	<10.0	10.0	03/31/2025	ND	210	105	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	03/31/2025	ND					

Surrogate: 1-Chlorooctane *74.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *71.2 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H251894

Page __1__ of __1__

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Benson Shugart Unit #11	Turn Around	
Project Number:	2411	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date:	24 Hour Rush
Sampler's Name:	KR	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes No
Received Intact:	(Yes) No	Thermometer ID:	#148
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.3c
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.6c
Total Containers:		Corrected Temperature:	3.9c

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD
Backfill Sample	3/28/2025		X		Comp	1		X	X	X	

Parameters

ANALYSIS REQUEST

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2SO_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Tamara Latchaw	3/31/25 1047	2		
			4		
			6		

Revised Date 05012020 Rev. 2020.1

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

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 453183
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nMCS0124830799**
Incident Name	**NMCS0124830799 BENSON SHUGART WATERFLOOD UNIT #011 @ 30-015-20528**
Incident Type	**Other**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-20528] BENSON SHUGART WATERFLOOD UNIT #011**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Benson Shugart Waterflood Unit #011
Date Release Discovered	07/06/2001
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Production Tank | Produced Water | Released: 100 BBL | Recovered: 30 BBL | Lost: 70 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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

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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 (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 453183
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/17/2025

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 453183
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 500 and 1000 (ft.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission		Yes
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.		
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 Cl B)	285
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	293
GRO+DRO	(EPA SW-846 Method 8015M)	293
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		03/31/2025
On what date will (or did) the final sampling or liner inspection occur		04/01/2025
On what date will (or was) the remediation complete(d)		04/07/2025
What is the estimated surface area (in square feet) that will be reclaimed		280
What is the estimated volume (in cubic yards) that will be reclaimed		0
What is the estimated surface area (in square feet) that will be remediated		280
What is the estimated volume (in cubic yards) that will be remediated		20
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 453183
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/17/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 453183
	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 (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 453183
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**446392**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**04/01/2025**
What was the (estimated) number of samples that were to be gathered	**6**
What was the sampling surface area in square feet	**450**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	280
What was the total volume (cubic yards) remediated	20
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	"Site assessment completed, excavated and remediated areas that exceeded set in Table 1 of NMAC 19.15.29.12/13. Backfilled with clean backfill(lab confirmed). Will reclaim/reseed the entire pad during P/A activities".

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/17/2025

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QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 453183
	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

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 453183
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	6/13/2025