

### 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



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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.



### 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.



### **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** 

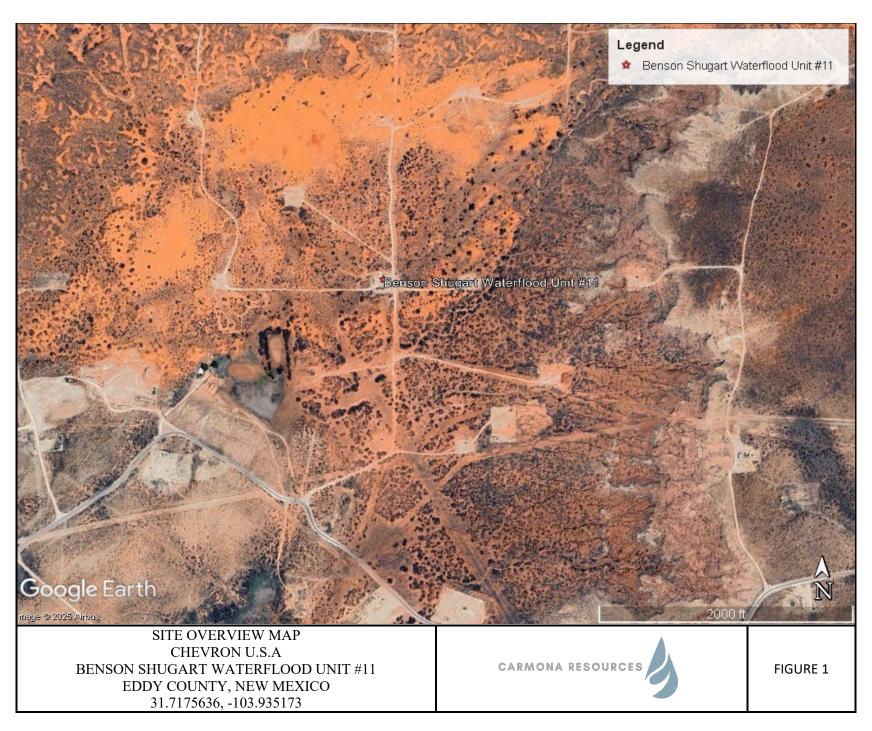
Riley Plogger

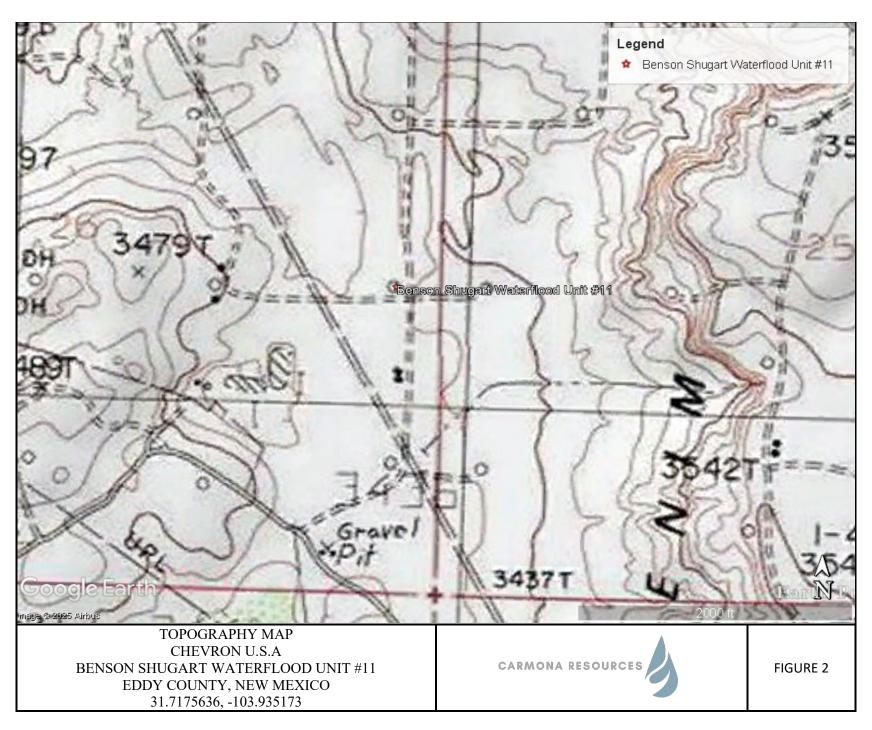
Project Manager

Gilbert Priego Project Manager

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

# **FIGURES**









# **APPENDIX A**

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

		<b>5</b> (1 (6)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
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
	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
S-2	"	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.98
3-2	"	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
	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
S-3	"	2.0'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<10.0
3-3	"	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
	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
S-4	"	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
	ry Criteria A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

<sup>A</sup> – 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

0		B (1 (6)		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	benzene Xylene B	Total	(injoride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)		BTEX (mg/kg)	(mg/kg)
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
Regulato	ry Criteria <sup>A</sup>					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

0	Dete	D 41- (54)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
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
	ry 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**

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

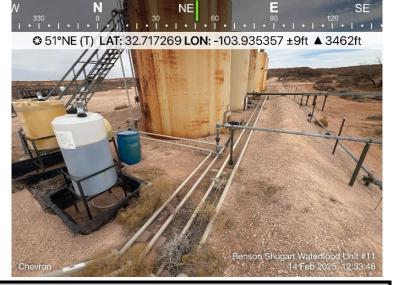
Facility: Benson Shugart Waterflood Unit

#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.



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

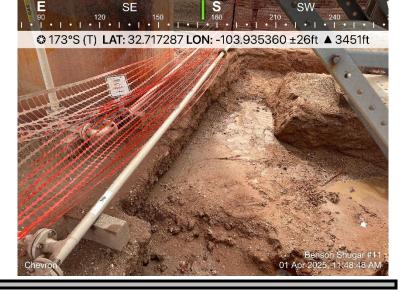
Facility: Benson Shugart Waterflood Unit

#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.



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



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.



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**

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 434503

### **QUESTIONS**

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	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

Action 434503

### **CONDITIONS**

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

### CONDITIONS

Created By		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
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

# 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		OGRID: 4323	
6301 Deauville Blvd		Action Number:	
Midland, TX 79706		446392	
		Action Type: [NOTIFY] Notification Of Sampling (C-141N)	
QUESTIONS			
Prerequisites			
Incident ID (n#)	nMCS0124830799		
Incident Name	NMCS0124830799 20	01 MAJOR A OHR @ 30-015-20528	
Incident Type	Other		
Incident Status	Closure Not Approved	1	
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	<b>–</b> 432-813-8988	

"(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."

Please provide any information necessary for navigation to sampling site

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 446392

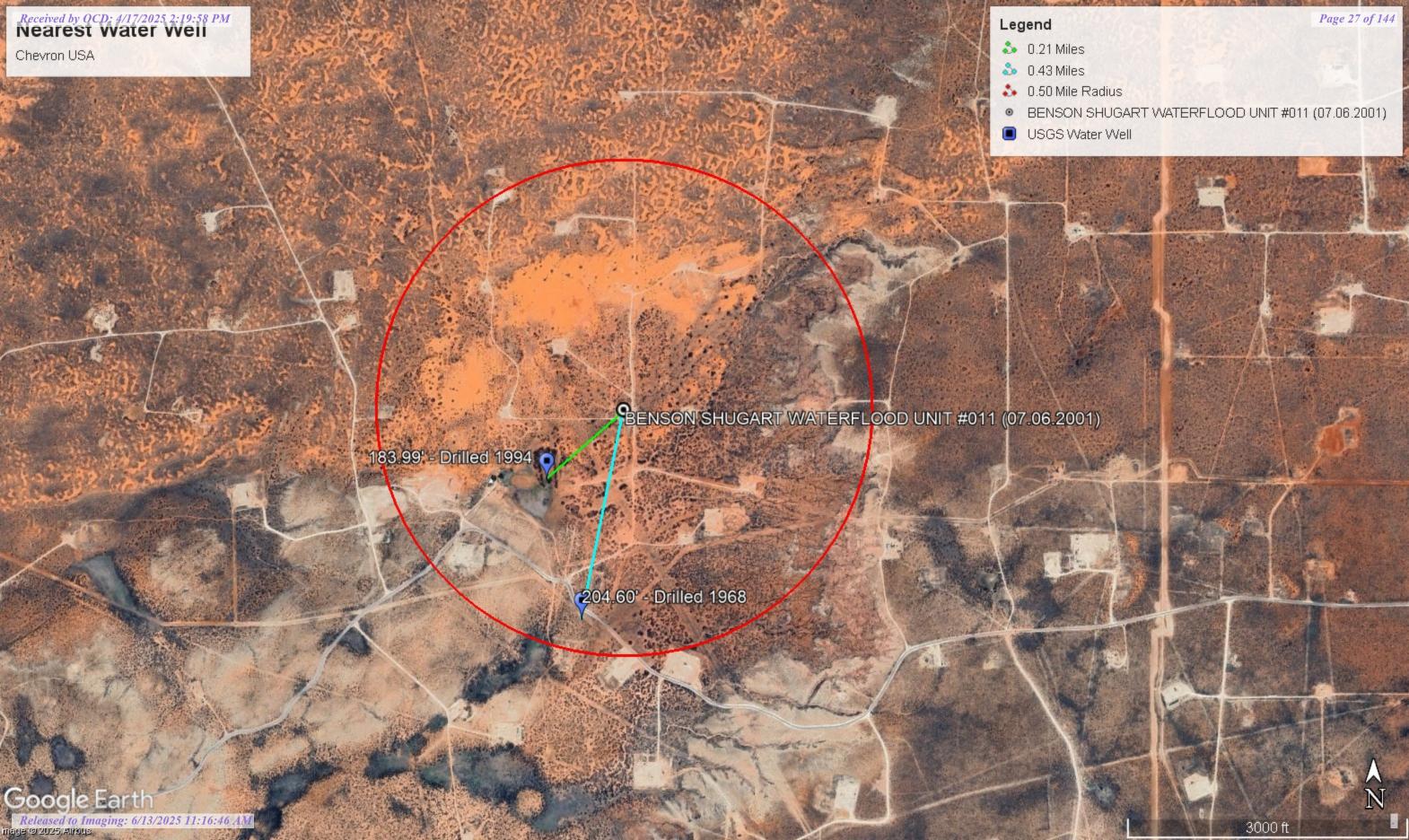
### CONDITIONS

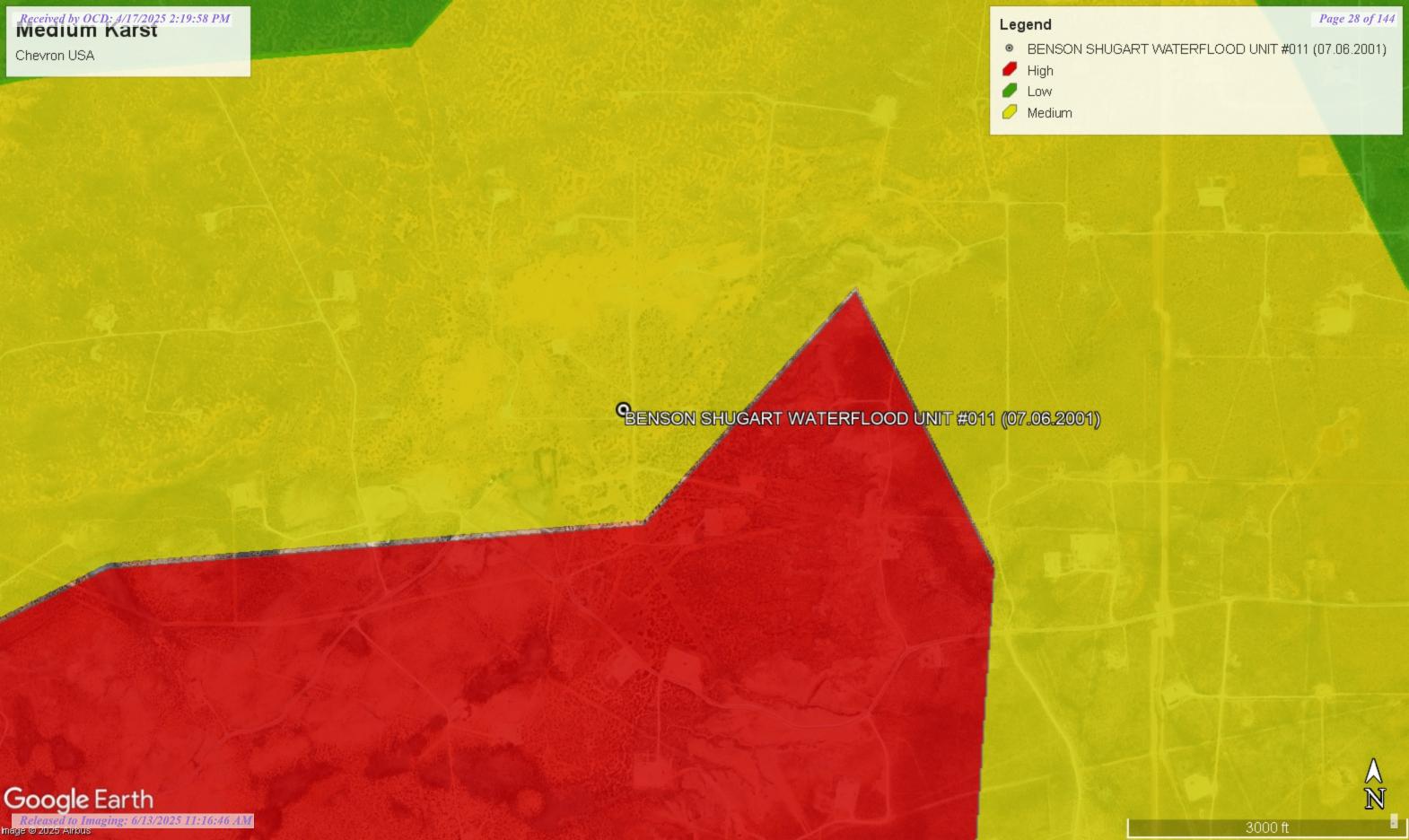
Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	446392
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

### CONDITIONS

Created By	Condition	Condition Date
abarnhil	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**







## 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)

lest to est) (meters) (In feet)

3 ,	,			. 3	-,								/		,	
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth		
CP 00818 POD1		CP	LE		NW	SE	26	18S	30E	599289.0	3620364.0 *	•	512	240		
<u>CP 00767 POD1</u>		CP	ED		SW	NE	35	18S	30E	599300.0	3619158.0 *	•	1406	500		
CP 00853 POD1	0	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

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



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 <u>USGS National Water Dashboard</u> 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

<u>Table of data</u>

<u>Tab-separated data</u>

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**

Braph of data	eselect period											
keselect peri	<u>ou</u>											
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 measu		
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	9	;			
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	9	;			
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	Α	Approved for publication Processing and review completed.

Questions or Comments <u>Help</u> 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: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2025-03-12 09:55:27 EDT

0.32 0.24 nadww01





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**National Water Information System: Web Interface** 

**USGS** Water Resources



### Click to hideNews Bulletins

 Explore the NEW <u>USGS National Water Dashboard</u> 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**

Output formats										
Table of dat	able of data									
<u>Tab-separat</u>	ab-separated data									
Graph of da	raph of data									
<u>Reselect pe</u>	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 (measure
1968-03-0	7	D	62610		3225.86	NGVD29	1		Z	
1968-03-0	7	D	62611		3227.40	NAVD88	1		Z	
1968-03-0	7	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	Α	Approved for publication Processing and review completed.

**Questions or Comments** 

<u>Help</u>

**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

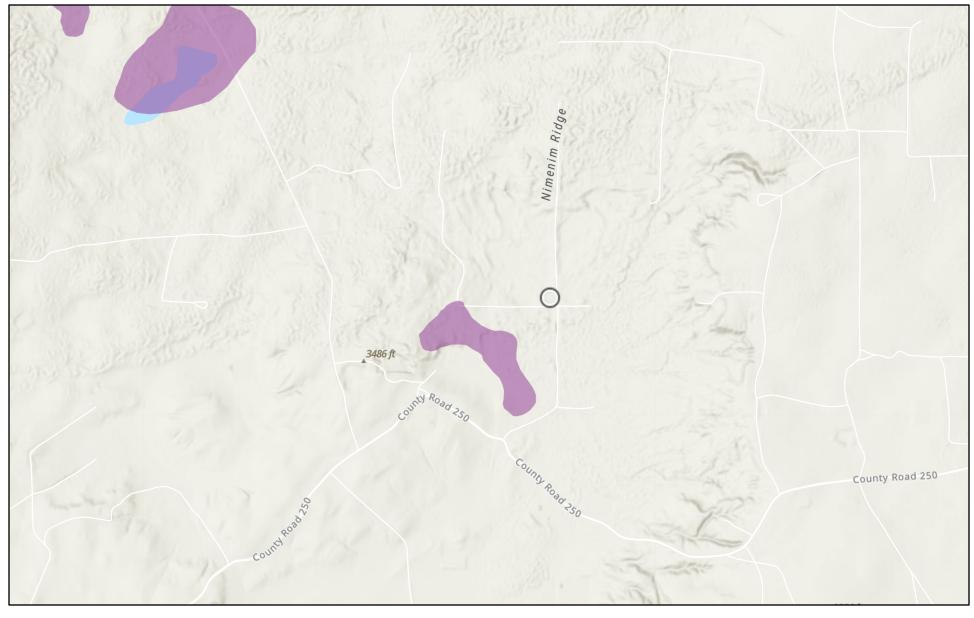
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2025-03-12 09:56:56 EDT

0.31 0.23 nadww01



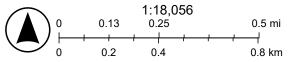
## BENSON SHUGART WATERFLOOD UNIT #011 (07.06.2001)



3/12/2025 USA Flood Hazard Areas

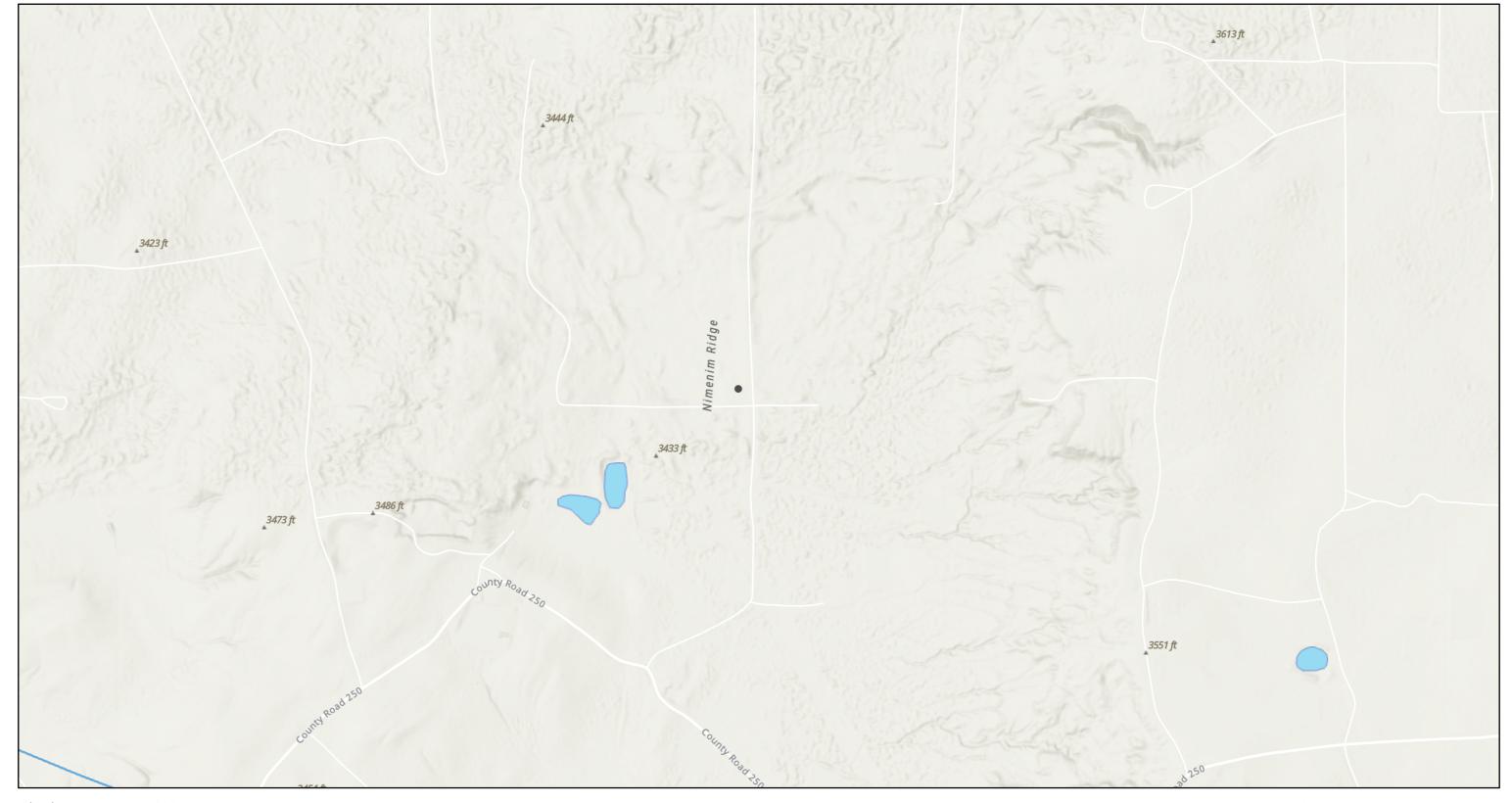
1% Annual Chance Flood Hazard

World\_Hillshade



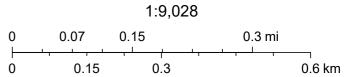
Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User

# BENSON SHUGART WATERFLOOD UNIT #011 (07.06.2001)



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

OSW Water Bodys
OSE Streams



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, NM OSE

# **APPENDIX E**

**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

# **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 <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 2

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Q

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12

13

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

# **Table of Contents**

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# **Definitions/Glossary**

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

### **Qualifiers**

GC V	AC
Qualific	er

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.

**Qualifier Description** 

### **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

QC

RER

RPD

TEF

**TEQ** 

TNTC

RL

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

**Eurofins Midland** 

**Quality Control** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

### Case Narrative

Client: Carmona Resources Job ID: 880-54964-1

Project: Benson Shugart Waterflood Unit #011

**Eurofins Midland** Job ID: 880-54964-1

#### 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.

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

Client: Carmona Resources

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

Lab Sample ID: 880-54964-1

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

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

Matrix: Solid

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	-
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:10	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:18	02/28/25 03:10	•
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	•
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 11:18	02/28/25 03:10	
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 - T	otal BTEX Cald	culation							
	D14	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	KL	MDL	Oilit		riepaieu	Allulyzou	
Analyte Total BTEX	<0.00401		0.00401	MIDL	mg/Kg	=		02/28/25 03:10	1
Total BTEX	<0.00401	U	0.00401	WIDL		_ =			
<u> </u>	<0.00401	U	0.00401	MDL	mg/Kg		Prepared		1
Total BTEX  Method: SW846 8015 NM - Diese	<0.00401	ics (DRO) (Qualifier	0.00401 GC)		mg/Kg			02/28/25 03:10	
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH	<0.00401  I Range Organ Result <49.9	ics (DRO) (Gualifier	0.00401  GC)  RL  49.9		mg/Kg			02/28/25 03:10  Analyzed	1 Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  Method: SW846 8015B NM - Diese	<0.00401  I Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	ics (DRO) (Gualifier	0.00401  GC)  RL  49.9	MDL	mg/Kg			02/28/25 03:10  Analyzed	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  Method: SW846 8015B NM - Diese Analyte	<0.00401  I Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	ics (DRO) (Outline Qualifier Unics (DRO) Qualifier	0.00401  GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared	02/28/25 03:10  Analyzed 02/28/25 05:41	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00401  I Range Organ Result <a href="#">&lt;49.9</a> Sel Range Orga Result	ics (DRO) (Outline Qualifier Unics (DRO) Qualifier	0.00401  GC)  RL 49.9  (GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	02/28/25 03:10  Analyzed 02/28/25 05:41  Analyzed	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00401  I Range Organ Result <a href="#">&lt;49.9</a> Sel Range Orga Result	ics (DRO) (0 Qualifier U  nics (DRO) Qualifier U	0.00401  GC)  RL 49.9  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	02/28/25 03:10  Analyzed 02/28/25 05:41  Analyzed	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  Method: SW846 8015B NM - Diese Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00401  I Range Organ Result <49.9  sel Range Orga Result <49.9  <49.9	ics (DRO) (O Qualifier U nics (DRO) Qualifier U	0.00401  GC)  RL 49.9  (GC)  RL 49.9  49.9	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg	<u>D</u>	Prepared  Prepared  02/27/25 08:28  02/27/25 08:28	02/28/25 03:10  Analyzed 02/28/25 05:41  Analyzed 02/28/25 05:41  02/28/25 05:41	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00401  I Range Organ Result <p>49.9 Sel Range Orga Result 49.9</p>	ics (DRO) (O Qualifier U nics (DRO) Qualifier U	0.00401  GC)  RL 49.9  (GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg	<u>D</u>	Prepared  Prepared  02/27/25 08:28	02/28/25 03:10  Analyzed 02/28/25 05:41  Analyzed 02/28/25 05:41	1 Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  Method: SW846 8015B NM - Diese Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00401  I Range Organ Result <49.9  sel Range Orga Result <49.9  <49.9	ics (DRO) (0 Qualifier U  nics (DRO) Qualifier U  U  U	0.00401  GC)  RL 49.9  (GC)  RL 49.9  49.9	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg	<u>D</u>	Prepared  Prepared  02/27/25 08:28  02/27/25 08:28	02/28/25 03:10  Analyzed 02/28/25 05:41  Analyzed 02/28/25 05:41  02/28/25 05:41	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<0.00401  Il Range Organ Result <49.9  sel Range Orga Result <49.9  <49.9  <49.9	ics (DRO) (0 Qualifier U  nics (DRO) Qualifier U  U  U	0.00401  GC)  RL 49.9  (GC)  RL 49.9  49.9	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg	<u>D</u>	Prepared  Prepared  02/27/25 08:28  02/27/25 08:28	02/28/25 03:10  Analyzed 02/28/25 05:41  Analyzed 02/28/25 05:41 02/28/25 05:41	Dil Fac

**Client Sample ID: H-2 (0-0.5')** Lab Sample ID: 880-54964-2 Date Collected: 02/26/25 00:00 **Matrix: Solid** 

RL

10.0

MDL Unit

mg/Kg

D

Prepared

Analyzed

02/28/25 21:30

Dil Fac

Date Received: 02/27/25 09:07

Analyte

Chloride

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

**Eurofins Midland** 

Result Qualifier

12.4

# **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')** 

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

Lab Sample ID: 880-54964-2

02/28/25 21:47

Matrix: Solid

_		0.00399		mg/Kg			02/28/25 03:31	
_							02/20/23 03.31	1
	ics (DRO) (	GC)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.8	U	49.8		mg/Kg			02/28/25 05:58	1
ge Orga	nics (DRO)	(GC)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 05:58	1
<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 05:58	•
<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 05:58	1
Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
118		70 - 130				02/27/25 08:28	02/28/25 05:58	
95		70 - 130				02/27/25 08:28	02/28/25 05:58	1
	ge Orga Result <49.8 <49.8 <49.8  Recovery	Result   Qualifier	ge Organics (DRO) (GC)           Result         Qualifier         RL           <49.8	ge Organics (DRO) (GC)           Result         Qualifier         RL         MDL           <49.8	ge Organics (DRO) (GC)           Result         Qualifier         RL         MDL         Unit           <49.8	ge Organics (DRO) (GC)           Result         Qualifier         RL         MDL         Unit         D           <49.8	ge Organics (DRO) (GC)           Result         Qualifier         RL         MDL         Unit         D         Prepared           <49.8	ge Organics (DRO) (GC)           Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           <49.8

**Client Sample ID: H-3 (0-0.5')** Lab Sample ID: 880-54964-3 Date Collected: 02/26/25 00:00 **Matrix: Solid** 

10.1

mg/Kg

285

Date Received: 02/27/25 09:07

Chloride

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
			70 - 130				02/27/25 11:18	02/28/25 03:52	1
Method: TAL SOP Total BTEX	- Total BTEX Cald					_			,
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	MDL	Unit	D	02/27/25 11:18 Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			,
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00399	<b>Qualifier</b> U	RL 0.00399	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00399 esel Range Organ	<b>Qualifier</b> U	RL 0.00399	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00399 esel Range Organ	Qualifier U ics (DRO) ( Qualifier	RL 0.00399		mg/Kg		Prepared	Analyzed 02/28/25 03:52	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00399 esel Range Organ Result <50.0	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399  GC) RL 50.0		mg/Kg		Prepared	Analyzed 02/28/25 03:52 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00399 esel Range Organ Result <50.0 diesel Range Organ	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399  GC) RL 50.0  (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 02/28/25 03:52  Analyzed 02/28/25 06:13	Dil Fac  Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte	- Total BTEX Calc Result <0.00399 esel Range Organ Result <50.0 diesel Range Orga Result	Qualifier U ics (DRO) ( Qualifier U unics (DRO) Qualifier	RL 0.00399  GC) RL 50.0  (GC) RL	MDL	mg/Kg  Unit mg/Kg  Unit		Prepared Prepared	Analyzed 02/28/25 03:52  Analyzed 02/28/25 06:13  Analyzed	Dil Fac  Dil Fac  1  Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00399 esel Range Organ Result <50.0 diesel Range Organ	Qualifier U ics (DRO) ( Qualifier U unics (DRO) Qualifier	RL 0.00399  GC) RL 50.0  (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 02/28/25 03:52  Analyzed 02/28/25 06:13	Dil Fac  Dil Fac

**Eurofins Midland** 

C10-C28)

Lab Sample ID: 880-54964-3

Matrix: Solid

Date Received: 02/27/25 09:07									
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO	) (GC) (Continu	ıed)					
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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 115 9.92 02/28/25 21:53 mg/Kg

70 - 130

103

93

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

Lab Sample ID: 880-54964-4

02/28/25 06:13

02/27/25 08:28

02/27/25 08:28

**Matrix: Solid** 

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

o-Terphenyl

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 - Dies	sel Range Orga	nics (DRO) (C	GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Casalina Danga Organias		11	40.9		malka		02/27/25 00:20	02/20/25 06:45		

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

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

70 - 130

**Eurofins Midland** 

02/28/25 06:45

o-Terphenyl

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')** 

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

Lab Sample ID: 880-54964-5

Matrix: Solid

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 - 1	Total BTEX Cald	culation							
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 - Diese Analyte		ics (DRO) ( Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/28/25 07:00	
Analyte	Result   <49.9	Qualifier U	<b>RL</b> 49.9	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9	Qualifier U	<b>RL</b> 49.9			<u>D</u>	Prepared Prepared		1
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg		<u> </u>	02/28/25 07:00	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9  sel Range Orga Result <49.9	Qualifier U  nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared 02/27/25 08:28	02/28/25 07:00  Analyzed 02/28/25 07:00	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9  sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	(GC)		mg/Kg		Prepared	02/28/25 07:00 Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9  sel Range Orga Result <49.9	Qualifier U  nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared 02/27/25 08:28	02/28/25 07:00  Analyzed 02/28/25 07:00	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9  sel Range Orga Result <49.9  <49.9	Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC) RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/25 08:28 02/27/25 08:28	02/28/25 07:00  Analyzed 02/28/25 07:00  02/28/25 07:00	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC)  RL 49.9  49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/25 08:28 02/27/25 08:28 02/27/25 08:28	02/28/25 07:00  Analyzed 02/28/25 07:00 02/28/25 07:00 02/28/25 07:00	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/25 08:28 02/27/25 08:28 02/27/25 08:28 Prepared	02/28/25 07:00  Analyzed 02/28/25 07:00 02/28/25 07:00 02/28/25 07:00  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/25 08:28 02/27/25 08:28 02/27/25 08:28 Prepared 02/27/25 08:28	02/28/25 07:00  Analyzed 02/28/25 07:00  02/28/25 07:00  02/28/25 07:00  Analyzed 02/28/25 07:00	Dil Fac  1  1  Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130	MDL	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/25 08:28 02/27/25 08:28 02/27/25 08:28 Prepared 02/27/25 08:28	02/28/25 07:00  Analyzed 02/28/25 07:00  02/28/25 07:00  02/28/25 07:00  Analyzed 02/28/25 07:00	1 <b>Dil Fac</b>

**Client Sample ID: H-6 (0-0.5')** Lab Sample ID: 880-54964-6 Date Collected: 02/26/25 00:00 **Matrix: Solid** 

Date Received: 02/27/25 09:07

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

# **Client Sample Results**

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood Unit #011

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

Matrix: Solid

Lab	Sample	ID:	880-	549	964-6	

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

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

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 - Diese	l Range Organ	ics (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 - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/27/25 08:28	02/28/25 07:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		02/27/25 08:28	02/28/25 07:16	1
C10-C28)									
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	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.8		9.94		mg/Kg			02/28/25 22:22	

# **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 Limi
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-54964-1	H-1 (0-0.5')	137 S1+	107	
380-54964-2	H-2 (0-0.5')	122	102	
380-54964-3	H-3 (0-0.5')	118	108	
380-54964-4	H-4 (0-0.5')	124	107	
380-54964-5	H-5 (0-0.5')	95	99	
380-54964-6	H-6 (0-0.5')	120	105	
380-54967-A-1-C MS	Matrix Spike	240 S1+	77	
880-54967-A-1-D MSD	Matrix Spike Duplicate	91	114	
CS 880-103855/1-A	Lab Control Sample	118	102	
.CSD 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-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1	Percent Surrogate Recovery (Acceptance Limit
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-54955-A-6-B MS	Matrix Spike	132 S1+	111	
)-54955-A-6-C MSD	Matrix Spike Duplicate	136 S1+	113	
-54964-1	H-1 (0-0.5')	122	102	
)-54964-2	H-2 (0-0.5')	118	95	
)-54964-3	H-3 (0-0.5')	124	103	
0-54964-4	H-4 (0-0.5')	115	93	
)-54964-5	H-5 (0-0.5')	130	106	
0-54964-6	H-6 (0-0.5')	128	104	
S 880-103806/2-A	Lab Control Sample	99	95	
SD 880-103806/3-A	Lab Control Sample Dup	103	100	
3 880-103806/1-A	Method Blank	163 S1+	148 S1+	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

**Eurofins Midland** 

3/3/2025

Lab Sample ID: MB 880-103803/5-A

Client: Carmona Resources

Analysis Batch: 103811

**Matrix: Solid** 

Project/Site: Benson Shugart Waterflood Unit #011

Method: 8021B - Volatile Organic Compounds (GC)

Job ID: 880-54964-1

SDG: Eddy County NM

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep	Batch:	10380

	Analyte	Result	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
1										

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyze	ed Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	02/27/25 0	8:15 02/27/25 1	13:03
1,4-Difluorobenzene (Surr)	94		70 - 130	02/27/25 0	8:15 02/27/25 1	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** 

мв мв

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 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

мв мв

Surrogate	%Recovery	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

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%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	

LCS LCS

Surrogate	%Recovery 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

Chefit Sample ID. Lab Control Sample Dup	,
Prep Type: Total/NA	4
Prep Batch: 103855	5

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

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### 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

Client Sample ID: Matrix Spike

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.1180 118 70 - 130 35 mg/Kg 3 Ethylbenzene 0.100 0.1241 mg/Kg 124 70 - 130 4 35 0.200 m-Xylene & p-Xylene 0 2464 mg/Kg 123 70 130 35 5 o-Xylene 0.100 0.1175 mg/Kg 117 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	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** Prep Type: Total/NA Analysis Batch: 103811 Prep Batch: 103855

MS MS Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene 0.01669 F1 70 - 130 <0.00199 U F1 F2 0.100 ma/Ka 17 Toluene <0.00199 UF1F2 0.100 0.02008 F1 20 70 - 130 mg/Kg 0.100 70 - 130 Ethylbenzene < 0.00199 U F1 F2 0.03342 F1 mg/Kg 33 0.1191 F1 <0.00398 U F1 F2 0.200 60 70 - 130 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00199 U F1 F2 0.100 0.06596 F1 mg/Kg 66 70 - 130

MS MS

Surrogate	%Recovery	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

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00199 U F1 F2 0.100 0.06815 F1 F2 68 70 - 130 121 35 mg/Kg Toluene <0.00199 U F1 F2 0.100 0.03645 F1 F2 mg/Kg 36 70 - 130 58 35 Ethylbenzene <0.00199 UF1F2 0.100 0.02235 F1 F2 mg/Kg 22 70 - 130 40 35 0.200 0.04754 F1 F2 24 70 - 130 m-Xylene & p-Xylene <0.00398 UF1F2 mg/Kg 86 35 o-Xylene <0.00199 U F1 F2 0.100 0.02430 F1 F2 mg/Kg 70 - 130 92 35

MSD MSD

мв мв

<50.0 U

Result Qualifier

Surrogate	76Kecovery	Qualifier	LIIIIII
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** 

Gasoline Range Organics

Analysis Batch: 103820

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

02/28/25 02:32

Prepared

02/27/25 08:27

Prep Batch: 103806

Analyzed

(GRO)-C6-C10

Analyte

**Eurofins Midland** 

RL

50.0

MDL Unit

mg/Kg

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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

	1410	mb							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		02/27/25 08:27	02/28/25 02:32	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	H	50.0		ma/Ka		02/27/25 08:27	02/28/25 02:32	1

MB MB

MR MR

Surrogate	%Recovery	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

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-103806/2-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 103820

Prep Batch: 103806

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

LCS LCS

l	Surrogate	%Recovery	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

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

	LCSD	LCSD	
Surrogate	%Recovery	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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	<49.9	U F1	1000	252.6	F1	mg/Kg		25	70 - 130	

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenvl	111		70 <sub>-</sub> 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

**Matrix: Solid** 

Analysis Batch: 103820

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

**Prep Type: Soluble** 

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

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

Prep Type: Total/NA

Prep Batch: 103806

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

C10-C28)

MSD MSD

Surrogate	%Recovery	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

Matrix: Solid

Analysis Batch: 103897

мв мв

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

Lab Sample ID: LCS 880-103861/2-A

**Matrix: Solid** 

Analysis Batch: 103897

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

Lab Sample ID: LCSD 880-103861/3-A

**Matrix: Solid** 

Analysis Batch: 103897

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

Lab Sample ID: 880-54964-1 MS

**Matrix: Solid** 

Analysis Batch: 103897

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	12 4		251	281.2		ma/Ka		107	90 - 110	

Lab Sample ID: 880-54964-1 MSD

**Matrix: Solid** 

Analysis Ratch: 103897

Alialysis Datcii. 103031											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	12.4		251	282.0		mg/Kg		107	90 - 110		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	

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# **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

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# **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

Job ID: 880-54964-1

SDG: Eddy County NM

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

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

Lab Sample ID: 880-54964-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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')** 

Date Collected: 02/26/25 00:00

Date Received: 02/27/25 09:07

Lab Sample ID: 880-54964-2

**Matrix: Solid** 

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.01 g 5 mL 103855 02/27/25 11:18 MNR EET MID Total/NA 8021B 5 mL 103811 02/28/25 03:31 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 104020 02/28/25 03:31 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 103991 02/28/25 05:58 **EET MID** Total/NA 103806 EL Prep 8015NM Prep 10.05 g 10 mL 02/27/25 08:28 EET MID Total/NA Analysis 8015B NM 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 50 mL 50 mL 103897 02/28/25 21:47 СН **EET MID** 

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

Date Collected: 02/26/25 00:00

Date Received: 02/27/25 09:07

Lab Sample ID: 880-54964-3

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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')** 

Date Collected: 02/26/25 00:00

Date Received: 02/27/25 09:07

Lab Sample	ID: 880-54964-4
------------	-----------------

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 880-54964-4

Matrix: Solid

**Client Sample ID: H-4 (0-0.5')** Date Collected: 02/26/25 00:00

Date Received: 02/27/25 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

**Eurofins Midland** 

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

**Matrix: Solid** 

# **Accreditation/Certification Summary**

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood Unit #011

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

### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
	are included in this report, but oes not offer certification.	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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### **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
380-54964-4	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

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Project Manager:	Ashton Thielke				Bill to: (if different)	fferent)	ర	Carmona Resources	sonrces					Work Ord	Work Order Comments	ents	
Company Name:	Carmona Resources	urces			Company Name	Name:						Prog	am: UST/PS	Program: UST/PST PRP Brownfields RRC	rownfields		Unberfund
Address:	310 West Wall Ste. 500	Ste. 500			Address:							State	State of Project:				
City, State ZIP:	Midland, TX 79701	701			City, State ZIP	ZIP:						Repo	ting:Level II	Reporting:Level II Level III PST/UST	PST/UST	rrrp	☐ Level IV ☐
Phone:	432-813-8988			Email:	Email: ThielkeA@Carmonaresources.com	@Carmol	naresourc	es.com				Deliv	Deliverables: EDD		ADaPT 🗆	Other:	
Project Name:	Benson Shugart Waterflood Unit #011	t Waterflood	Unit #011	Turm	Turn Around					AP	IALYSIS	ANALYSIS REQUEST				Preservative Codes	ve Codes
Project Number:		2411		✓ Routine	Rush		Pres. Code								None: NO		DI Water: H <sub>2</sub> O
Project Location	Edc	Eddy Co, NM		Due Date:	Normal										Cool: Cool	Cool	MeOH: Me
Sampler's Name:		GPJ/RP		TAT starts the day received by the	day received	by the		(OAI				_			HCL: HC	오	HNO <sub>3</sub> : HN
PO #:				lab, if rece.	lab, if received by 4:30pm	mo	S.I	N + (							H <sub>2</sub> S04: H <sub>2</sub>	H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	(kes)	No	ete	-	0.00						H₃PO₄: HP	H.	
Received Intact:	Yes	s No	Thermometer ID:	eter ID:	71/2	ф		+ 0	le 3(						NaHS	NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	)sex	No MIA	Correction Factor:	Factor:	0	-			lorid			_				Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes	No/ N/A	Temperati	Temperature Reading:	0	7			чэ						Zn Ace	Zn Acetate+NaOH: Zn	l: Zn
Total Containers:	7		Corrected	Corrected Temperature:	Ó	10		108							NaOH	NaOH+Ascorbic Acid: SAPC	cid: SAPC
Sample Identification	ntification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	нат							o	Sample Comments	mments
H-1 (0-0.5')	-0.5')	2/26/2025		×		ပ	1	×	×								
H-2 (0-0.5')	.0.5')	2/26/2025		×		ပ	-	×	×								
H-3 (0-0.5')	.0.5')	2/26/2025		×		ပ	-	×	×								
H-4 (0-0.5')	-0.5')	2/26/2025		×		ပ	1	×	×								
H-5 (0-0.5')	-0.5')	2/26/2025		×		၅	-	×	×								
H-6 (0-0.5')	-0.5')	2/26/2025		×		ပ	-	×	×								
			Please §	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	to cmoeh	ring@ca	rmonare	sources	.com an	d mcarmo	па@сагт	onaresou	rces.com				
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																Revised Date	Revised Date 05012020 Bey 2020 1

Creator: Kramer, Jessica

# **Login Sample Receipt Checklist**

Client: Carmona Resources Job Number: 880-54964-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

Login Number: 54964

List Number: 1

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	N/A	

Released to Imaging: 6/13/2025 11:16:46 AM

<6mm (1/4").

**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

**JOB NUMBER** 

**Eddy County NM** 

880-54966-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **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

Released to Imaging: 6/13/2025 11:16:46 AM

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

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### **Definitions/Glossary**

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

#### **Qualifiers**

**GC VOA** Qualifier

F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits S1+ Surrogate recovery exceeds control limits, high biased.

**Qualifier Description** 

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

**HPLC/IC** 

Qualifier **Qualifier Description** U

Indicates the analyte was analyzed for but not detected.

### **Glossary**

DLC

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

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

Decision Level 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** 

Presumptive **PRES** 

QC **Quality Control** RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

**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.

**Eurofins Midland** 

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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.

**Eurofins Midland** 

Released to Imaging: 6/13/2025 11:16:46 AM

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

Date Collected: 02/26/25 00:00

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood Unit #011

Lab Sample ID: 880-54966-1

Matrix: Solid

Job ID: 880-54966-1

SDG: Eddy County NM

Date Received: 02/27/25 09:07

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

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 F	Range Org	janics	(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

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
1-Chlorooctane	95		70 - 130	03/05/25 10:4	03/05/25 15:34	1
o-Terphenyl	90		70 - 130	03/05/25 10:48	03/05/25 15:34	1
_						

Method: EPA 300.0	- Anions, ion	Chromato	gra	ony	- 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')

Date Collected: 02/26/25 00:00	Matrix: Solid
D ( D ) 1 1 00/07/07 00 07	

Date Received: 02/27/25 09:07

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** 

Lab Sample ID: 880-54966-2

# **Client Sample Results**

Client: Carmona Resources

Client Sample ID: S-1 (1.5')

Project/Site: Benson Shugart Waterflood Unit #011

Lab Sample ID: 880-54966-2

SDG: Eddy County NM

Job ID: 880-54966-1

Matrix: Solid

Date Collected: 02/26/25 00:00	
Date Received: 02/27/25 09:07	
Method: TAL SOP Total BTEX - Total BTEX Calculation	

Method: TAL SOP Total BTEX - Total	DIEX Cal	culation							
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 Rar	nge Organ	ics (DRO) (GC)							
Analyto	Docult	Ouglifier	DI	MDI	Unit	<b>D</b>	Drongrad	Analyzod	Dil Eac

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 - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.2	U	50.2		mg/Kg		03/05/25 10:45	03/05/25 15:49	1
(GRO)-C6-C10									
Diesel Range Organics (Over	187		50.2		mg/Kg		03/05/25 10:45	03/05/25 15:49	1
C10-C28)									
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 Date Collected: 02/26/25 00:00 **Matrix: Solid** 

Date Received: 02/27/25 09:07

Released to Imaging: 6/13/2025 11:16:46 AM

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)  Method: TAL SOP Total BTEX	77 - Total BTEX Calo	culation	70 - 130				02/27/25 11:10	02/27/25 23:16	1
Method: TAL SOP Total BTEX -	- Total BTEX Cald	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	02/27/25 11:10 Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Calc Result <0.00399	<b>Qualifier</b> U	RL 0.00399	MDL	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Cald Result <0.00399 sel Range Organ	<b>Qualifier</b> U	RL 0.00399			<u>D</u>		Analyzed	·
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	- Total BTEX Cald Result <0.00399 sel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00399		mg/Kg	=	Prepared	Analyzed 02/27/25 23:16	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	- Total BTEX Calc Result <0.00399 sel Range Organ Result <49.9	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399  GC) RL 49.9		mg/Kg	=	Prepared	Analyzed 02/27/25 23:16 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Di	- Total BTEX Calc Result <0.00399 sel Range Organ Result <49.9 esel Range Orga	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399  GC) RL 49.9	MDL	mg/Kg	=	Prepared	Analyzed 02/27/25 23:16 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	- Total BTEX Calc Result <0.00399 sel Range Organ Result <49.9 esel Range Orga	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00399  GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg		Prepared Prepared	Analyzed 02/27/25 23:16  Analyzed 03/05/25 01:16	Dil Fac

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')

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

Lab Sample ID: 880-54966-3

Matrix: Solid

Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC) (Continu	ıed)				
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 Analyzed Dil Fac Prepared Chloride <9.96 U 9.96 03/01/25 03:31 mg/Kg

Client Sample ID: S-1 (3.0')

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

Lab Sample ID: 880-54966-4

**Matrix: Solid** 

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 - Die	sel Range Organ	ics (DRO) (GO	<b>C</b> )						
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 - Di			•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 00:02	1
(GPO) C6 C10									

Oil Range Organics (Over C28-C36)	<50.0 C	J	50.0	mg/Kg	02/27/25 10:02	03/05/25 00:02	1
Surrogate	%Recovery G	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

50.0

mg/Kg

<50.0 U

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

**Eurofins Midland** 

02/27/25 10:02

03/05/25 00:02

Diesel Range Organics (Over

C10-C28)

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')

Date Received: 02/27/25 09:07

Lab Sample ID: 880-54966-5 Date Collected: 02/26/25 00:00

Matrix: Solid

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	
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:57	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:57	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/27/25 23:57	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/27/25 23:57	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/27/25 23:57	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	93		70 - 130				02/27/25 11:10	02/27/25 23:57	
1,4-Difluorobenzene (Surr)	98		70 - 130				02/27/25 11:10	02/27/25 23:57	
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
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	•
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	11							
<del>-</del>	10.0	U	49.9		mg/Kg			03/05/25 01:32	
Method: SW846 8015B NM - Dies					mg/Kg			03/05/25 01:32	
Method: SW846 8015B NM - Dies	sel Range Orga			MDL			Prepared	03/05/25 01:32 Analyzed	
Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)	MDL		<u>D</u>	Prepared 02/27/25 10:02		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	<u>D</u>	<u>.</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	02/27/25 10:02	Analyzed 03/05/25 01:32 03/05/25 01:32	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	MDL	Unit mg/Kg	<u>D</u>	02/27/25 10:02	Analyzed 03/05/25 01:32	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	02/27/25 10:02	Analyzed 03/05/25 01:32 03/05/25 01:32	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U	(GC)  RL 49.9  49.9  49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	02/27/25 10:02 02/27/25 10:02 02/27/25 10:02	Analyzed 03/05/25 01:32 03/05/25 01:32 03/05/25 01:32	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result	nics (DRO) Qualifier U	(GC)  RL 49.9  49.9  49.9  Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	02/27/25 10:02 02/27/25 10:02 02/27/25 10:02 Prepared	Analyzed 03/05/25 01:32 03/05/25 01:32 03/05/25 01:32 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	sel Range Orga           Result         <49.9	U  Qualifier  U  Qualifier	(GC)  RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	02/27/25 10:02 02/27/25 10:02 02/27/25 10:02 Prepared 02/27/25 10:02	Analyzed 03/05/25 01:32 03/05/25 01:32 03/05/25 01:32  Analyzed 03/05/25 01:32	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <49.9 <49.9 <49.9  **Recovery 90 80  Chromatograp	U  Qualifier  U  Qualifier	(GC)  RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	02/27/25 10:02 02/27/25 10:02 02/27/25 10:02 Prepared 02/27/25 10:02	Analyzed 03/05/25 01:32 03/05/25 01:32 03/05/25 01:32  Analyzed 03/05/25 01:32	Dil Fac

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

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

# **Client Sample Results**

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood Unit #011

Lab Sample ID: 880-54966-6

Matrix: Solid

Job ID: 880-54966-1

SDG: Eddy County NM

Client Sample ID: S-1 (5.0') Date Collected: 02/26/25 00:00

Date Received: 02/27/25 09:07

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 - Diese	l Range Organ	ics (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 - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 01:46	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		02/27/25 10:02	03/05/25 01:46	1
C10-C28)									
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	Chromatogran	hv - Solubl	e						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	п	9.98		mg/Kg		· ·	03/01/25 04:08	

**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

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 <sub>-</sub> 130				02/27/25 11:10	02/28/25 00:38	1
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDI	Unit	n			·
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald	Qualifier	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/28/25 00:38	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00401	<b>Qualifier</b> U	RL	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald Result <0.00401 esel Range Organ	<b>Qualifier</b> U	RL	MDL MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00401 esel Range Organ	Qualifier U ics (DRO) ( Qualifier	RL 0.00401		mg/Kg	<u> </u>	Prepared	Analyzed 02/28/25 00:38	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.8	Qualifier U ics (DRO) ( Qualifier U	RL 0.00401 ——————————————————————————————————		mg/Kg	<u> </u>	Prepared	Analyzed 02/28/25 00:38 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.8 siesel Range Organ	Qualifier U ics (DRO) ( Qualifier U	RL 0.00401 ——————————————————————————————————		mg/Kg  Unit mg/Kg	<u> </u>	Prepared	Analyzed 02/28/25 00:38 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.8 siesel Range Organ	Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier	RL 0.00401  GC)  RL 49.8	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 02/28/25 00:38  Analyzed 03/05/25 02:01	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00401  esel Range Organ Result <49.8  diesel Range Orga Result Result	Qualifier U ics (DRO) ( Qualifier U inics (DRO) Qualifier U	RL 0.00401  GC)  RL 49.8  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared  Prepared	Analyzed 02/28/25 00:38  Analyzed 03/05/25 02:01  Analyzed	Dil Fac  Dil Fac  1  Dil Fac  1

### **Client Sample Results**

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood Unit #011

SDG: Eddy County NM

Job ID: 880-54966-1

Lab Sample ID: 880-54966-7

Matrix: Solid

**Client Sample ID: S-2 (0-1.0')** Date Collected: 02/26/25 00:00

Date Received: 02/27/25 09:07

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 C	hromatography - Soluble	<b>)</b>					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.4	9.98	mg/Kg			03/01/25 04:30	1

0.00200

0.00200

0.00200

0.00399

0.00200

Client Sample ID: S-2 (1.5') Date Collected: 02/26/25 00:00

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

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

Date Received: 02/27/25 09:07

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Lab Sample ID: 880-54966-8

02/28/25 00:59

Prepared

02/27/25 11:10

02/27/25 11:10

02/27/25 11:10

02/27/25 11:10

02/27/25 11:10

**Matrix: Solid** 

Analyzed Dil Fac 02/28/25 00:59 02/28/25 00:59 02/28/25 00:59 02/28/25 00:59

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

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

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 Ra	nge Organ	ics (DRO) (G	C)						
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
Mothod: SW946 9045P NM Diocol 5	Panga Orga	nice (DBO) (	3C)						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:15	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:15	1
C10-C28)									
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-Terphenvl	82		70 - 130				02/27/25 10:02	03/05/25 02:15	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	<b>)</b>						
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

Client Sample ID: S-2 (2.0')

Project/Site: Benson Shugart Waterflood Unit #011

Lab Sample ID: 880-54966-9

Matrix: Solid

Job ID: 880-54966-1

SDG: Eddy County NM

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

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 Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
T-4-I DTEV	40,00000	11	0.00000					00/00/05 04:40	

	D 11 0 110	D: 145		_	 	
Method: SW846 8015 NM - Diesel Rang	e Organics (DRO) (GC)					
Total BTEX	<0.00399 U	0.00399	mg/Kg		02/28/25 01:19	1

Allalyto	Result	Qualifici	112	MDL	Oilit		ricparca	Allalyzou	Diriac
Total TPH	<49.8	U	49.8		mg/Kg			03/05/25 02:31	1
Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 02:31	1
(GPO) C6 C10									

<49.8 U

C10-C28) 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

49.8

mg/Kg

02/27/25 10:02

03/05/25 02:31

Method: EPA 300.0 - Anions, Ion C	hromatograpl	hy - 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

Diesel Range Organics (Over

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

Dil Fac

Analyzed

03/01/25 04:52

### **Client Sample Results**

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood Unit #011 SDG: Eddy County NM

Lab Sample ID: 880-54966-10

Client Sample ID: S-2 (3.0')

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

Matrix: Solid

Job ID: 880-54966-1

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	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.7	U	49.7		mg/Kg			03/05/25 02:45	,
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:45	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:45	
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/27/25 10:02	03/05/25 02:45	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	85		70 - 130				02/27/25 10:02	03/05/25 02:45	
o-Terphenyl	74		70 - 130				02/27/25 10:02	03/05/25 02:45	

9.94 Client Sample ID: S-2 (4.0') Lab Sample ID: 880-54966-11

RL

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

<9.94 U

Analyte

Chloride

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

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 1 Different harmana (O)	84		70 - 130				02/27/25 11:10	02/28/25 03:04	1
	- Total BTEX Cald	culation Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDI	Unit	D			Dil Ea
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U	RL 0.00402		mg/Kg		Prepared	Analyzed 02/28/25 03:04	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ Result	Qualifier U ics (DRO) (Qualifier	RL 0.00402	MDL	mg/Kg	<u>D</u>		Analyzed 02/28/25 03:04  Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00402		mg/Kg		Prepared	Analyzed 02/28/25 03:04	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.8	Qualifier U ics (DRO) ( Qualifier U	RL 0.00402 GC) RL 49.8		mg/Kg		Prepared	Analyzed 02/28/25 03:04  Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.8 siesel Range Organ	Qualifier U ics (DRO) ( Qualifier U	RL 0.00402 GC) RL 49.8		mg/Kg  Unit mg/Kg		Prepared	Analyzed 02/28/25 03:04  Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.8 siesel Range Organ	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00402  GC)  RL 49.8	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 02/28/25 03:04  Analyzed 03/05/25 03:15	Dil Fac

Project/Site: Benson Shugart Waterflood Unit #011

SDG: Eddy County NM

Job ID: 880-54966-1

Client Sample ID: S-2 (4.0')

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

Lab Sample ID: 880-54966-11

Matrix: Solid

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 Analyzed Dil Fac Prepared Chloride <9.92 U 9.92 03/01/25 05:00 mg/Kg

Client Sample ID: S-2 (5.0')

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

Lab Sample ID: 880-54966-12

**Matrix: Solid** 

Method: SW846 8021B - Volatile	e Organic Comp	ounds (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 - Tot	al BTEX Calc	ulation							
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 Ran	ge Organ	ics (DRO) (G	C)						
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 Ra	nge Orga	nics (DRO) ((	3C)						

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-Terphenvl	83		70 - 130				02/27/25 10:02	03/05/25 03:29	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	<b>)</b>						
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 ID: S-3 (0-1.0')** 

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

Job ID: 880-54966-1

SDG: Eddy County NM

Lab Sample ID: 880-54966-13

•	Matrix: Solid

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 - 1	Total BTEX Cald	culation							
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
Analyte Total TPH	Result 63.8	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/05/25 16:03	Dil Fac
Total TPH	63.8		50.1		mg/Kg			03/05/25 16:03	1
Method: SW846 8015B NM - Die:	sel Range Orga	nics (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
Mathadi FDA 200 0 - Aniona Jam	Chramatanna	h. Calubi	-						
Method: EPA 300.0 - Anions, Ion	Chromatograp	my - Solubi	e						

Client Sample ID: S-3 (1.5') Lab Sample ID: 880-54966-14 Date Collected: 02/26/25 00:00 **Matrix: Solid** 

9.90

mg/Kg

<9.90 U

Date Received: 02/27/25 09:07

Chloride

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

**Eurofins Midland** 

03/01/25 05:14

# **Client Sample Results**

Client: Carmona Resources

Date Received: 02/27/25 09:07

Project/Site: Benson Shugart Waterflood Unit #011

Lab Sample ID: 880-54966-14

Client Sample ID: S-3 (1.5') Date Collected: 02/26/25 00:00

Matrix: Solid

03/01/25 02:58

**Matrix: Solid** 

Job ID: 880-54966-1

SDG: Eddy County NM

ng/Kg	D Prepared	02/28/25 04:05  Analyzed  03/05/25 03:59	Dil Fac
ng/Kg	D Prepared		Dil Fac
ng/Kg	D Prepared		Dil Fac
		03/05/25 03:59	1
Init			
Init I			
J	D Prepared	Analyzed	Dil Fac
mg/Kg	02/27/25 10:02	03/05/25 03:59	1
ng/Kg	02/27/25 10:02	03/05/25 03:59	•
ng/Kg	02/27/25 10:02	03/05/25 03:59	1
	Prepared	Analyzed	Dil Fac
	02/27/25 10:02	03/05/25 03:59	
	02/27/25 10:02	03/05/25 03:59	•
n	g/Kg	g/Kg 02/27/25 10:02 g/Kg 02/27/25 10:02  Prepared 02/27/25 10:02	g/Kg 02/27/25 10:02 03/05/25 03:59 g/Kg 02/27/25 10:02 03/05/25 03:59  Prepared Analyzed 02/27/25 10:02 03/05/25 03:59

Client Sample ID: S-3 (2.0') Lab Sample ID: 880-54966-15

10.1

mg/Kg

Date Collected: 02/26/25 00:00

<10.1 U

Date Received: 02/27/25 09:07

Released to Imaging: 6/13/2025 11:16:46 AM

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		02/27/25 11:10	02/28/25 04:26	
Toluene	<0.00198	U	0.00198		mg/Kg		02/27/25 11:10	02/28/25 04:26	•
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
			70 - 130				02/27/25 11:10	02/28/25 04:26	
Method: TAL SOP Total BTEX -	· Total BTEX Cald	Qualifier	70 - 130  RL 0.00396	MDL	Unit ma/Ka	<u>D</u>	02/27/25 11:10 Prepared	02/28/25 04:26  Analyzed 02/28/25 04:26	
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Calc Result <	<b>Qualifier</b> U	RL 0.00396	MDL	Unit mg/Kg	<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX - Analyte	Total BTEX Calc Result <a href="https://www.es.eu/"></a>	<b>Qualifier</b> U	RL 0.00396			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	Total BTEX Calc Result <a href="https://www.es.eu/"></a>	Qualifier U ics (DRO) (Qualifier	RL 0.00396		mg/Kg	=	Prepared	Analyzed 02/28/25 04:26	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	Total BTEX Calc Result <0.00396 sel Range Organ Result <49.7	Qualifier U ics (DRO) ( Qualifier U	RL 0.00396  GC) RL 49.7		mg/Kg	=	Prepared	Analyzed 02/28/25 04:26 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Dies	Total BTEX Calc Result <0.00396 sel Range Organ Result <49.7 esel Range Orga	Qualifier U ics (DRO) ( Qualifier U	RL 0.00396  GC) RL 49.7	MDL	mg/Kg	=	Prepared	Analyzed 02/28/25 04:26 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	Total BTEX Calc Result <0.00396 sel Range Organ Result <49.7 esel Range Orga	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00396  GC)  RL 49.7	MDL	mg/Kg  Unit mg/Kg		Prepared Prepared	Analyzed 02/28/25 04:26  Analyzed 03/05/25 04:14	Dil Fac

Job ID: 880-54966-1

Client: Carmona Resources Project/Site: Benson Shugart Waterflood Unit #011 SDG: Eddy County NM

Client Sample ID: S-3 (2.0') Lab Sample ID: 880-54966-15

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

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC) (Continu	ıed)					
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 Chrom	atograp	hy - 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 Date Collected: 02/26/25 00:00 **Matrix: Solid** 

Date Received: 02/27/25 09:07

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 04:47	
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 04:47	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 04:47	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/27/25 11:10	02/28/25 04:47	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 04:47	,
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/27/25 11:10	02/28/25 04:47	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		70 - 130				02/27/25 11:10	02/28/25 04:47	
1,4-Difluorobenzene (Surr)	100		70 - 130				02/27/25 11:10	02/28/25 04:47	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total BTEX			0.00400 —	MDL	Unit mg/Kg	<u>D</u>	Prepared	<b>Analyzed</b> 02/28/25 04:47	
	<0.00400	U	0.00400	MDL		<u>D</u>	<u>Prepared</u>		Dil Fac
Total BTEX	<0.00400	U	0.00400			<u>D</u>	Prepared Prepared		
Total BTEX  Method: SW846 8015 NM - Diese	<0.00400	ics (DRO) (Qualifier	0.00400 GC)		mg/Kg		<u> </u>	02/28/25 04:47	
Total BTEX  Method: SW846 8015 NM - Diese Analyte	<0.00400 el Range Organ Result <49.8	ics (DRO) (	0.00400  GC)  RL  49.8		mg/Kg		<u> </u>	02/28/25 04:47  Analyzed	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00400 el Range Organ Result <a href="#">&lt;49.8</a> sel Range Orga	ics (DRO) (	0.00400  GC)  RL  49.8		mg/Kg  Unit mg/Kg		<u> </u>	02/28/25 04:47  Analyzed	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00400 el Range Organ Result <a href="#">&lt;49.8</a> sel Range Orga	ics (DRO) (Qualifier Unics (DRO) Qualifier	0.00400  GC)  RL 49.8  (GC)	MDL	mg/Kg  Unit mg/Kg		Prepared	02/28/25 04:47  Analyzed 03/05/25 04:29	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00400 el Range Organ Result <49.8 sel Range Orga Result <49.8	ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00400  GC)  RL  49.8  (GC)  RL  49.8	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg		Prepared  Prepared  02/27/25 10:02	02/28/25 04:47  Analyzed 03/05/25 04:29  Analyzed 03/05/25 04:29	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00400 el Range Organ Result <a href="#">&lt;49.8</a> sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00400  GC)  RL  49.8  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit		Prepared Prepared	02/28/25 04:47  Analyzed  03/05/25 04:29  Analyzed	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00400 el Range Organ Result <49.8 sel Range Orga Result <49.8	ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00400  GC)  RL  49.8  (GC)  RL  49.8	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg		Prepared  Prepared  02/27/25 10:02	02/28/25 04:47  Analyzed 03/05/25 04:29  Analyzed 03/05/25 04:29	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  Method: SW846 8015B NM - Diese Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00400 el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8	ics (DRO) (Qualifier U	0.00400  GC)  RL  49.8  (GC)  RL  49.8  49.8	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared  Prepared  02/27/25 10:02  02/27/25 10:02	02/28/25 04:47  Analyzed 03/05/25 04:29  Analyzed 03/05/25 04:29 03/05/25 04:29	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<0.00400 el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8	ics (DRO) (Qualifier U  nics (DRO) Qualifier U  U  U	0.00400  GC)  RL  49.8  (GC)  RL  49.8  49.8	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared  Prepared  02/27/25 10:02  02/27/25 10:02	02/28/25 04:47  Analyzed 03/05/25 04:29  Analyzed 03/05/25 04:29 03/05/25 04:29	Dil Fac

RL

9.98

MDL Unit

mg/Kg

Prepared

**Eurofins Midland** 

Analyzed

03/01/25 03:22

Dil Fac

Result Qualifier

<9.98 U

Project/Site: Benson Shugart Waterflood Unit #011

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

Lab Sample ID: 880-54966-17

Client Sample ID: S-3 (4.0')

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

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 05:07	
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 05:07	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 05:07	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 05:07	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:10	02/28/25 05:07	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:10	02/28/25 05:07	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	90		70 - 130				02/27/25 11:10	02/28/25 05:07	
1,4-Difluorobenzene (Surr)	95		70 - 130				02/27/25 11:10	02/28/25 05:07	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
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	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
		ics (DRO) ( Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/05/25 04:43	
Analyte	Result   <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH 	Result <49.9	Qualifier U	RL 49.9			<u>D</u>	Prepared Prepared		
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9		mg/Kg			03/05/25 04:43	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte  Gasoline Range Organics (GRO)-C6-C10	Result <49.9  sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.9  (GC)  RL 49.9		mg/Kg		Prepared 02/27/25 10:02	03/05/25 04:43  Analyzed  03/05/25 04:43	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9  sel Range Orga Result	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC)		mg/Kg		Prepared	03/05/25 04:43  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 49.9 sel Range Orga Result <49.9 <49.9	Qualifier U  unics (DRO) Qualifier U	RL 49.9  (GC) RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/25 10:02 02/27/25 10:02	03/05/25 04:43  Analyzed 03/05/25 04:43 03/05/25 04:43	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 49.9 sel Range Orga Result <49.9	Qualifier U  unics (DRO) Qualifier U	RL 49.9  (GC)  RL 49.9		mg/Kg  Unit mg/Kg		Prepared 02/27/25 10:02	03/05/25 04:43  Analyzed  03/05/25 04:43	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result 49.9 sel Range Orga Result <49.9 <49.9	Qualifier U  unics (DRO) Qualifier U  U	RL 49.9  (GC) RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/25 10:02 02/27/25 10:02	03/05/25 04:43  Analyzed 03/05/25 04:43 03/05/25 04:43	
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U  unics (DRO) Qualifier U  U	RL 49.9  (GC) RL 49.9  49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/25 10:02 02/27/25 10:02 02/27/25 10:02	03/05/25 04:43  Analyzed 03/05/25 04:43 03/05/25 04:43	Dil Fac

Client Sample ID: S-3 (5.0') Lab Sample ID: 880-54966-18 Date Collected: 02/26/25 00:00 **Matrix: Solid** 

RL

9.96

MDL Unit

mg/Kg

D

Prepared

Analyzed

03/01/25 03:28

Dil Fac

Result Qualifier

<9.96 U

Date Received: 02/27/25 09:07

Analyte

Chloride

Method: SW846 8021B - Volati	ile Organic Comp	ounds (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

Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1

SDG: Eddy County NM

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

03/01/25 03:34

**Matrix: Solid** 

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 - Diese	Range Organ	ics (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 - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 04:59	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 04:59	•
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 10:02	03/05/25 04:59	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	92		70 - 130				02/27/25 10:02	03/05/25 04:59	
o-Terphenyl	82		70 - 130				02/27/25 10:02	03/05/25 04:59	

**Client Sample ID: S-4 (0-1.0')** Lab Sample ID: 880-54966-19

9.94

mg/Kg

10.1

Date Collected: 02/26/25 00:00

Chloride

Date Received: 02/27/25 09:07

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	
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)  Method: TAL SOP Total BTEX			70 - 130				02/27/25 11:10	02/28/25 05:48	·
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	MDL	Unit	<u>D</u>	02/27/25 11:10 Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398	<b>Qualifier</b> U	RL 0.00398	MDL	Unit mg/Kg	<u>D</u>			·
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U	RL 0.00398		mg/Kg		Prepared	Analyzed 02/28/25 05:48	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) ( Qualifier	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0	Qualifier U ics (DRO) ( Qualifier U	RL 0.00398  GC)  RL 50.0		mg/Kg		Prepared	Analyzed 02/28/25 05:48 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 Diesel Range Orga	Qualifier U ics (DRO) ( Qualifier U	RL 0.00398  GC)  RL 50.0	MDL	mg/Kg		Prepared	Analyzed 02/28/25 05:48 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 02/28/25 05:48  Analyzed 03/05/25 05:13	Dil Fac

Project/Site: Benson Shugart Waterflood Unit #011

SDG: Eddy County NM

**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

Job ID: 880-54966-1

Method: SW846 8015B NM - Diesel Range Organics	(DRO) (GC)	(Continued)
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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
	Chloride	<9.92	U	9.92		mg/Kg			03/01/25 03:53

Client Sample ID: S-4 (1.5') Lab Sample ID: 880-54966-20

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

Method: SW846 8021B - Volat	ile Organic Comp	ounds (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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTFX	<0.00399	U	0.00399		ma/Ka			02/28/25 06:09	

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

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TDU	<10.9 II	40.9	malka			02/05/25 05:20	

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

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

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

**Eurofins Midland** 

Dil Fac

Job ID: 880-54966-1

SDG: Eddy County NM

Client Sample ID: S-4 (2.0') Date Collected: 02/26/25 00:00

Lab Sample ID: 880-54966-21

03/01/25 01:08

Matrix: Solid

Date Received: 02/27/25 09:07	

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 Cald	culation							
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 - Die	esel Range Organ	ics (DRO) (	GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Method: SW846 8015B NM - Diesel Range Organics (	(DBO)	(CC)
Method. 34040 00 13D MM - Diesel Range Organics (	וטמטו	100

<50.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/27/25 15:27	03/01/25 01:08	1
(GRO)-C6-C10	.50.0		50.0		11.6		00/07/05 45 07	00/04/05 04 00	
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

50.0

mg/Kg

Wethou. EPA 300.0	- Allions, ion	Cilionialog	rap	шу	- Soluble

Analyte	Result (	Qualifier	RL	MDL	Unit	I	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 Date Collected: 02/26/25 00:00 **Matrix: Solid** 

Date Received: 02/27/25 09:07

Total TPH

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

Date Collected: 02/26/25 00:00

Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1

SDG: Eddy County NM

Lab Sample ID: 880-54966-22 Client Sample ID: S-4 (3.0')

Matrix: Solid

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 - Diese	l Range Organ	ics (DRO) (0	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 - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		02/27/25 15:27	03/01/25 01:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		02/27/25 15:27	03/01/25 01:56	1
C10-C28)									
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	Chromatogran	hy - Soluble	e.						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	п	9.96		mg/Kg			03/01/25 04:11	

# **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

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(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

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(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 Lim
		1001	OTPH1	•
Lab Sample ID	Client Sample ID	(70-130)	(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	
380-54966-14	S-3 (1.5')	92	81	
880-54966-15	S-3 (2.0')	91	81	
380-54966-16	S-3 (3.0')	94	85	
380-54966-17	S-3 (4.0')	95	87	
880-54966-18	S-3 (5.0')	92	82	
380-54966-19	S-4 (0-1.0')	92	82	
880-54966-20	S-4 (1.5')	88	78	
380-54966-21	S-4 (2.0')	134 S1+	119	
380-54966-21 MS	S-4 (2.0')	114	113	
380-54966-21 MSD	S-4 (2.0')	113	110	
380-54966-22	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	
_CS 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	
CSD 880-103891/3-A	Lab Control Sample Dup	65 S1-	67 S1-	
CSD 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

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** 

MB	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
<0.00401	U	0.00401		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
<0.00200	U	0.00200		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
<0.00401	U	0.00401		mg/Kg		02/27/25 08:15	02/27/25 13:03	1
МВ	МВ							
	Result <0.00200 <0.00200 <0.00200 <0.00401 <0.00200 <0.00401	MB MB Result Qualifier  <0.00200 U <0.00200 U <0.00200 U <0.00401 U <0.00401 U <0.00401 U  <0.00401 U	Result         Qualifier         RL           <0.00200         U         0.00200           <0.00200         U         0.00200           <0.00200         U         0.00200           <0.00401         U         0.00401           <0.00200         U         0.00200           <0.00401         U         0.00401	Result         Qualifier         RL         MDL           <0.00200         U         0.00200           <0.00200         U         0.00200           <0.00200         U         0.00200           <0.00401         U         0.00401           <0.00401         U         0.00200           <0.00401         U         0.00401	Result         Qualifier         RL         MDL         Unit           <0.00200         U         0.00200         mg/Kg           <0.00200         U         0.00200         mg/Kg           <0.00200         U         0.00200         mg/Kg           <0.00401         U         0.00401         mg/Kg           <0.00200         U         0.00200         mg/Kg           <0.00401         U         0.00401         mg/Kg	Result         Qualifier         RL         MDL         Unit         D           <0.00200         U         0.00200         mg/Kg         mg/Kg           <0.00200         U         0.00200         mg/Kg           <0.00200         U         0.00200         mg/Kg           <0.00401         U         0.00401         mg/Kg           <0.00401         U         0.00401         mg/Kg           <0.00401         U         0.00401         mg/Kg	Result         Qualifier         RL         MDL         Unit         D         Prepared           <0.00200         U         0.00200         mg/Kg         02/27/25 08:15           <0.00200         U         0.00200         mg/Kg         02/27/25 08:15           <0.00200         U         0.00200         mg/Kg         02/27/25 08:15           <0.00401         U         0.00401         mg/Kg         02/27/25 08:15           <0.00200         U         0.00200         mg/Kg         02/27/25 08:15           <0.00401         U         0.00401         mg/Kg         02/27/25 08:15	Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           <0.00200         U         0.00200         mg/Kg         02/27/25 08:15         02/27/25 13:03           <0.00200         U         0.00200         mg/Kg         02/27/25 08:15         02/27/25 13:03           <0.00200         U         0.00200         mg/Kg         02/27/25 08:15         02/27/25 13:03           <0.00401         U         0.00401         mg/Kg         02/27/25 08:15         02/27/25 13:03           <0.00200         U         0.00200         mg/Kg         02/27/25 08:15         02/27/25 13:03           <0.00401         U         0.00401         mg/Kg         02/27/25 08:15         02/27/25 13:03

Limits

70 - 130

70 - 130

Lab Sample ID: MB 880-103821/5-A

Matrix: Solid

Surrogate

Analysis Batch: 103810

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

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

Analyzed

02/27/25 13:03

02/27/25 13:03

Prepared

02/27/25 08:15

02/27/25 08:15

Prep Batch: 103821

мв мв

%Recovery Qualifier

94

149 S1+

Analyte	Result	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

MB MB

Surrogate	%Recovery	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

Released to Imaging: 6/13/2025 11:16:46 AM

**Matrix: Solid** 

Analysis Batch: 103810

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 103853** 

	MB	MB							
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 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	%Recovery	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

**Eurofins Midland** 

Dil Fac

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** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%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	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Prep Batch: 103853** 

**Prep Batch: 103853** 

Lab Sample ID: LCSD 880-103853/2-A **Matrix: Solid** 

Analysis Batch: 103810

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

LCSD LCSD

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 880-54966-1 MS **Client Sample ID: S-1 (0-1.0')** Matrix: Solid Prep Type: Total/NA

Analysis Batch: 103810

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	

MS MS

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

Lab Sample ID: 880-54966-1 MSD **Client Sample ID: S-1 (0-1.0')** 

**Matrix: Solid** 

nalveis Batch: 103810

Analysis Batch: 103610									Prep i	Saton: 1	<b>U</b> 3033
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

**Eurofins Midland** 

Prep Type: Total/NA

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** 

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

MSD MSD

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

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 103855** 

Lab Sample ID: MB 880-103855/5-A

**Matrix: Solid** 

Analysis Batch: 103811

мв мв

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 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
1									

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	214	S1+	70 - 130	02/27/25	11:18 02/28/25 00:3	39 1
1,4-Difluorobenzene (Surr)	124		70 - 130	02/27/25	11:18 02/28/25 00:3	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

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%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	

LCS LCS

Surrogate	%Recovery 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** 

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

Analysis Batch: 103811							Prep E	Batch: 1	03855
	Spike	LCSD LC	CSD				%Rec		RPD
Analyte	Added	Result Q	ualifier	Unit	D	%Rec	Limits	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

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1

SDG: Eddy County NM

Prep Type: Total/NA

Prep Batch: 103855

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

	LCSD	LCSD	
Surrogate	%Recovery	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** 

Analysis Batch: 103811

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	

MS MS Surrogate %Recovery 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	Duplic	ate
			_	_		

Prep Type: Total/NA

Prep Batch: 103855

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

	MSD	MSD	
Surrogate	%Recovery	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

**Matrix: Solid** 

Analysis Batch: 104310

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

Prep Batch: 103839

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

MB MB

Surrogate	%Recovery	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

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** 

Lab Sample ID: LCSD 880-103839/3-A

Analysis Batch: 104310

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 103839

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

**Matrix: Solid** 

C10-C28)

LCS LCS

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	120	70 - 130
o-Terphenyl	107	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Prep Batch: 103839** 

Analysis Batch: 104310 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1296 70 - 130 Gasoline Range Organics mg/Kg 130 1 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1285 mg/Kg 129 70 - 130 7 20

LCSD LCSD

Surrogate	%Recovery 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

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

C10-C28)

**Matrix: Solid** 

Surrogate

1-Chlorooctane

MS MS

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	105		70 - 130		
o-Terphenvl	88		70 <sub>-</sub> 130		

Client Sample ID: S-1 (3.0')

Prep Type: Total/NA

Prep Batch: 103839

MSD MSD RPD Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Limits RPD Limit Analyte %Rec Unit D Gasoline Range Organics <50.0 U 997 878.7 mg/Kg 88 70 - 130 2 20 (GRO)-C6-C10 997 817.8 Diesel Range Organics (Over <50.0 U mg/Kg 82 70 - 13020 C10-C28)

Lab Sample ID: 880-54966-4 MSD

Analysis Batch: 104310

MSD MSD %Recovery Qualifier Limits 70 - 130 104

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

MSD MSD

%Recovery Qualifier Surrogate 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** 

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/27/25 14:54	03/01/25 00:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		02/27/25 14:54	03/01/25 00:18	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 14:54	03/01/25 00:18	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepa	red	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

**Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

Analysis Batch: 103976

Lab Sample ID: LCS 880-103891/2-A

Prep Type: Total/NA

**Prep Batch: 103891** 

	Эріке	LCS	LUS				70Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	886.2		mg/Kg		89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	820.5		mg/Kg		82	70 - 130	
C10 C20\								

100 100

Cnika

C10-C28)

LCS LCS

Surrogate	%Recovery Qualitier	Limits
1-Chlorooctane	78	70 - 130
o-Terphenyl	66 S1-	70 - 130

Lab Sample ID: LCSD 880-103891/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 103976

Prep Type: Total/NA

**Prep Batch: 103891** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	900.7		mg/Kg		90	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	880.5		mg/Kg		88	70 - 130	7	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	65	S1-	70 - 130
o-Terphenyl	67	S1-	70 - 130

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

**Matrix: Solid** 

Analysis Batch: 103976

Client Sample ID: S-4 (2.0') Prep Type: Total/NA

**Prep Batch: 103891** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	998	697.2		mg/Kg		70	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	998	732.7		mg/Kg		73	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 880-54966-21 MSD

**Matrix: Solid** 

Analysis Batch: 103976

Client Sample ID: S-4 (2.0')

Prep Type: Total/NA **Prep Batch: 103891** 

Sample Sample Spike MSD MSD %Rec RPD Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <50.0 U 998 714.0 72 70 - 130 2 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 711.0 mg/Kg 71 70 - 130 3 C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	113	70 - 130
o-Terphenyl	110	70 - 130

Lab Sample ID: MB 880-104388/1-A

**Matrix: Solid** 

Analysis Batch: 104413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104388

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/05/25 07:53	03/05/25 06:43	1
	(GRO)-C6-C10	~E0.0		F0.0		no ar/1V ar		02/05/25 07:52	02/05/25 06:42	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
١	,					0 0				

MB MB

мв мв

Surrogate	%Recovery	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

Matrix: Solid

Analysis Batch: 104413

Prep Type: Total/NA

Prep Batch: 104388

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1032	-	mg/Kg		103	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1028		mg/Kg		103	70 - 130	
C10-C28)								

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

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 90 70 - 130 o-Terphenyl 80 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104388

Lab Sample ID: LCSD 880-104388/3-A **Matrix: Solid** 

Analysis Batch: 104413

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1014 101 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1080 108 mg/Kg 70 - 1305 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	97	70 - 130
o-Terphenyl	86	70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 104388

Analysis Batch: 104413

Lab Sample ID: 890-7751-A-1-F MS

**Matrix: Solid** 

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U 998 1290 mg/Kg 129 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 1237 mg/Kg 124 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate

Limits 70 - 130 1-Chlorooctane 112 70 - 130 o-Terphenyl 99

Lab Sample ID: 890-7751-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 104413

Prep Type: Total/NA

Prep Batch: 104388 RPD %Rec

Sample Sample MSD MSD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 998 1202 20 Gasoline Range Organics <49.8 mg/Kg 120 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 1112 mg/Kg 111 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	96		70 - 130

Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1

Client Sample ID: Method Blank

SDG: Eddy County NM

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103862/1-A

**Matrix: Solid** 

MR MR

Analysis Batch: 103908

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		ma/Ka			03/01/25 01:33	1

Lab Sample ID: LCS 880-103862/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 103908

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	250	259.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-103862/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble** 

Analysis Batch: 103908

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	256.2		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-54966-4 MS Client Sample ID: S-1 (3.0') **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 103908

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	<9.94	U	249	262.6		mg/Kg		106	90 - 110	

Lab Sample ID: 880-54966-4 MSD Client Sample ID: S-1 (3.0') **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 103908

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	<9.94	U	249	263.2		mg/Kg		106	90 - 110	0	20	

Lab Sample ID: MB 880-103863/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 103988

Analyte	Result	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 Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 103988

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	237.3		ma/Ka		95	90 _ 110	

Lab Sample ID: LCSD 880-103863/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 103988

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 237.9 mg/Kg 95 90 - 110

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

7										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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** 

,, c.c	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	<10.1	U	252	251.9	-	mg/Kg		97	90 - 110	0	20

Client Sample ID: S-3 (1.5') **Prep Type: Soluble** 

Client Sample ID: S-3 (1.5')

**Prep Type: Soluble** 

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood Unit #011

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

### **GC VOA**

Prep	Batch:	103803
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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 880-54966-1	Client Sample ID S-1 (0-1.0')	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
880-54966-2	S-1 (1.5')	Total/NA	Solid	5035	
880-54966-3	S-1 (2.0')	Total/NA	Solid	5035	

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 Batcl
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	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
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	
380-54966-3	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	
380-54966-6	S-1 (5.0')	Total/NA	Solid	Total BTEX	
380-54966-7	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	
380-54966-13	S-3 (0-1.0')	Total/NA	Solid	Total BTEX	
380-54966-14	S-3 (1.5')	Total/NA	Solid	Total BTEX	
380-54966-15	S-3 (2.0')	Total/NA	Solid	Total BTEX	
880-54966-16	S-3 (3.0')	Total/NA	Solid	Total BTEX	

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Analysis Batch: 104021

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

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
İ	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

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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	<u> </u>
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	

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

**Eurofins Midland** 

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Job ID: 880-54966-1

SDG: Eddy County NM

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

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

Lab Sample ID: 880-54966-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 880-54966-2

Client Sample ID: S-1 (1.5') Date Collected: 02/26/25 00:00

**Matrix: Solid** 

Date Received: 02/27/25 09:07

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.03 g 5 mL 103853 02/27/25 11:10 MNR EET MID Total/NA 8021B 5 mL 103810 02/27/25 22:55 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 104021 02/27/25 22:55 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 104226 03/05/25 15:49 **EET MID** Total/NA 104388 EL Prep 8015NM Prep 9.97 g 10 mL 03/05/25 10:45 **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 104413 03/05/25 15:49 TKC **EET MID** Soluble 02/27/25 11:44 Leach DI Leach 4.95 g 50 mL 103862 SA EET MID Soluble Analysis 300.0 50 mL 50 mL 103908 03/01/25 03:24 СН **EET MID** 

Client Sample ID: S-1 (2.0')

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

Lab Sample ID: 880-54966-3

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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')

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

Lab Sample ID: 880-54966-4

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

#### Lab Chronicle

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood Unit #011

Lab Sample ID: 880-54966-4

Matrix: Solid

**Matrix: Solid** 

Job ID: 880-54966-1

SDG: Eddy County NM

Client Sample ID: S-1 (3.0') Date Collected: 02/26/25 00:00

Date Received: 02/27/25 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Received: 02/27/25 09:07

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number Type Run Factor or Analyzed Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 103853 02/27/25 11:10 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 103810 02/27/25 23:57 MNR EET MID 1 Total/NA Total BTEX Analysis 1 104021 02/27/25 23:57 AJ **EET MID** Total/NA Analysis 8015 NM 104226 03/05/25 01:32 EET MID AJ 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 uL 104310 03/05/25 01:32 TKC **EET MID** 1 uL 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 СН **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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Date Received: 02/27/25 09:07

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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 Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g 1 uL	10 mL 1 uL	103839 104310	02/27/25 10:02 03/05/25 02:01	EL TKC	EET MID EET MID

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**Matrix: Solid** 

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Released to Imaging: 6/13/2025 11:16:46 AM

SDG: Eddy County NM

Job ID: 880-54966-1

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

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

Lab Sample ID: 880-54966-7

Matrix: Solid

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 02/26/25 00:00

Date Received: 02/27/25 09:07

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

**Eurofins Midland** 

**Matrix: Solid** 

#### Lab Chronicle

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood Unit #011

Lab Sample ID: 880-54966-11

Matrix: Solid

Job ID: 880-54966-1

SDG: Eddy County NM

Client Sample ID: S-2 (4.0') Date Collected: 02/26/25 00:00 Date Received: 02/27/25 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Date Collected: 02/26/25 00:00 Matrix: Solid

Date Received: 02/27/25 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

**Eurofins Midland** 

3/6/2025

Job ID: 880-54966-1

SDG: Eddy County NM

Client Sample ID: S-3 (1.5')

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

Lab Sample ID: 880-54966-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 880-54966-15

**Matrix: Solid** 

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

Client Sample ID: S-3 (2.0')

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 880-54966-17 Client Sample ID: S-3 (4.0')

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

**Eurofins Midland** 

**Matrix: Solid** 

Project/Site: Benson Shugart Waterflood Unit #011

Lab Sample ID: 880-54966-17

Matrix: Solid

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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') Lab Sample ID: 880-54966-18

Date Collected: 02/26/25 00:00 **Matrix: Solid** 

Date Received: 02/27/25 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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')** Lab Sample ID: 880-54966-19

Date Collected: 02/26/25 00:00 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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') Lab Sample ID: 880-54966-20

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

Date Received: 02/27/25 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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** 

**Matrix: Solid** 

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Lab Sample ID: 880-54966-22

Client Sample ID: S-4 (3.0') Date Collected: 02/26/25 00:00

Date Received: 02/27/25 09:07

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Project/Site: Benson Shugart Waterflood Unit #011

Job ID: 880-54966-1

SDG: Eddy County NM

### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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

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oratory	
T MID	

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

**Eurofins Midland** 

### **Sample Summary**

Client: Carmona Resources

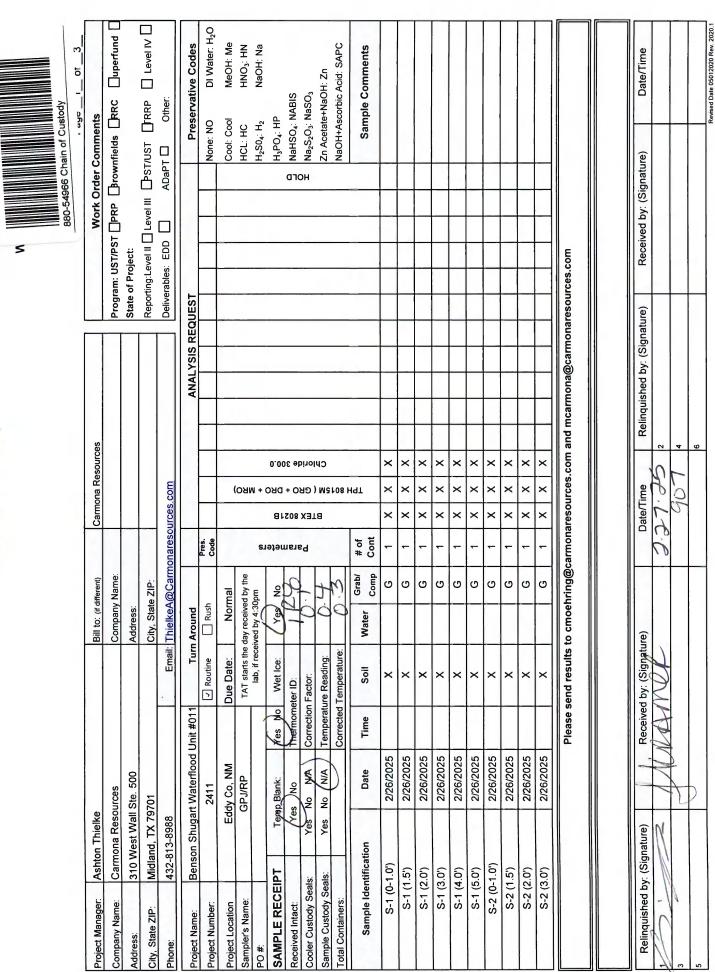
Project/Site: Benson Shugart Waterflood Unit #011

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

13

Chain of Custody



Work Order No:

10

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14

roject Manager:	Ashton Thielke				Bill to: (if different)	erent)	Car	Carmona Resources	sonrces				Work O	rder Co	Work Order Comments	
Company Name:	Carmona Resources	ources			Company Name	lame:						Progra	Program: UST/PST PRP Brownfields RRC	Brownfi	ields 🛮 RRC	Unberfund
Address:	310 West Wall Ste.	l Ste. 500			Address:							State	State of Project:			
Sity. State ZIP:	Midland, TX 79701	3701			City, State ZIP:	ZIP:						Report	Reporting:Level II Level III DST/UST	DST/U	JST   TRRP	☐ Level IV ☐
hone:	432-813-8988			Email: Thie	ThielkeA	keA@Carmonaresources.com	resource	S.com				Deliver	Deliverables: EDD	ADaPT 🗆	Other:	
Project Name:	Benson Shugart Waterflood Unit #011	rt Waterflood L	Unit #011	Turn	Turn Around					AN	ANALYSIS REQUEST	EQUEST			Preserva	Preservative Codes
Project Number:		2411		✓ Routine	Rush	a 0	Pres. Code							Ž	None: NO	DI Water: H <sub>2</sub> O
Project Location	E	Eddy Co, NM		Due Date:	Normal	la l		(		-11				Ö	Cool: Cool	MeOH: Me
Sampler's Name:		GPJ/RP		TAT starts the day received by the	lay received	by the		NEO						I	HCL: HC	HNO <sub>3</sub> : HN
.¥ Oc				lab, if recei	ved by 4:30p	E	SIS	l + C						Ĭ	H₂S0₄: H₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes	No		סאם	0.00					I	H₃PO₄: HP	
Received Intact:			Thermometer ID:	eter ID:			ne1e	+ 0	)£ et					and	NaHSO4: NABIS	S
Cooler Custody Seals:	s: Yes	No N/A	Correction Factor	Factor:				สอ )	loric						Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	3
Sample Custody Seals:	als: Yes	No N/A	Temperatu	Temperature Reading:			8	WS	чэ					Ż	Zn Acetate+NaOH: Zn	OH: Zn
Total Containers:			Corrected	Corrected Temperature:		1		108						Z	NaOH+Ascorbic Acid: SAPC	c Acid: SAPC
Sample Identification	ntification	Date	Time	Soil	Water	Grab/ #	# of Cont	нат							Sample	Sample Comments
S-2 (4.0')	1.0')	2/26/2025		×		ပ	- ×	×	×							
S-2 (5.0')	1.0')	2/26/2025		×		ပ	- ×	×	×							
S-3 (0-1.0)	1.0')	2/26/2025		×		ပ	- ×	×	×							
S-3 (1.5')	(.5.)	2/26/2025		×		ပ	- ×	×	×							
S-3 (2.0')	2.0')	2/26/2025		×		ပ	٠ ×	×	×							
S-3 (3.0')	3.0')	2/26/2025		×		ပ	۲ ×	×	×							
S-3 (4.0')	1.0')	2/26/2025		×		ပ	1 X	×	×							
S-3 (5.0°)	5.0')	2/26/2025		×		უ	1 X	×	×							
S-4 (0-1.0')	.1.0')	2/26/2025		×		ပ	1 ×	×	×							
S-4 (1.5')	1.5')	2/26/2025		×		၅	1 ×	×	×							
			Please s	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	o cmoeh	ring@car	nonares	ources.	com and	mcarmo	na@carmo	naresour	ces.com			
			<													
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Work Order No:

															Page	_3_ of _3
Project Manager:	Ashton Thielke				Bill to: (if different)	ferent)	Ö	Carmona Resources	sonrces				Wo	rk Order	Work Order Comments	
	Carmona Resources	urces			Company Name	Vame:						Program:	UST/PST   PR	₹P Bro	Program: UST/PST PRP Brownfields PRC	
Address:	310 West Wall Ste. 500	Ste. 500			Address:							State of Project:	roject:			
City, State ZIP:	Midland, TX 79701	1701			City, State ZIP:	ZIP:						Reporting:	Reporting: Level II	III Ps		ORRP   Level IV
Phone:	432-813-8988			Email:	Email: ThielkeA@Carmonaresources.com	2 Carmo	naresour	ses.com				Deliverables:	ss: EDD	ADa	ADaPT 🔲 Other.	u.
Project Name:	Benson Shugart Waterflood Unit #011	rt Waterflood L	Unit #011	Turm	Turn Around					A	ANALYSIS REQUEST	EQUEST			Preserv	Preservative Codes
J.		2411		✓ Routine	Rush		Pres. Code								None: NO	DI Water: H <sub>2</sub> O
Project Location	Ed	Eddy Co, NM		Due Date:	Normal	ıaı									Cool: Cool	MeOH: Me
Sampler's Name:		GPJ/RP		TAT starts the day received by the	day received	by the		NRO)							HCL: HC	HNO3: HN
PO #:				lab, if rece	ived by 4:30	E	SIS	V + C							H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes	N <sub>o</sub>	əşəu		0.00						H₃PO₄: HP	
Received Intact:	Yes	N <sub>o</sub>	Thermometer ID:	eter ID:				_	E 91					סרם	NaHSO4: NABIS	SIS
Cooler Custody Seals:	Yes	No N/A	Correction Factor:	Factor:				LEX GR	loric					ЭН	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	ő
Sample Custody Seals:	Yes	No N/A	Temperatu	Temperature Reading:				_	чэ						Zn Acetate+NaOH: Zn	aOH: Zn
Total Containers:			Corrected	Corrected Temperature:				108							NaOH+Ascort	NaOH+Ascorbic Acid: SAPC
Sample Identification	tification	Date	Time	Soil	Water	Grab/	# of	НЧТ						-	Sample	Sample Comments
S-4 (2.0°)	0.0	2/26/2025		×		5 0	+	×	×		+	-		-		
	(2			,		,	$\dagger$	╁	>	-				+		
S-4 (3.0')	(.0.)	2/26/2025		×		9	-	×	×	#	+	+		+		
							+	Ŧ	1	+				+		
							+	1	+	#				+		
							+				+	+	+	+		
							+				+			+		
											+	+	1	+		
						+										
									-					+		
			Please \$	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	to cmoeh	ring@c	ırmonarı	sonrces	com and	1 mcarm	ona@carm	onaresources	s.com			
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3									4							
2			7						9							
															Revised	Revised Date 05012020 Rev. 2020.1

Creator: Kramer, Jessica

### **Login Sample Receipt Checklist**

Client: Carmona Resources Job Number: 880-54966-1 SDG Number: Eddy County NM

Login Number: 54966 List Source: Eurofins Midland List Number: 1

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	



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

A ..... I ..... . J .... 711

Project Location: EDDY CO NM

#### Sample ID: CS - 1 (1.75') (H251958-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	103 9	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey & Keene



#### Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 04/02/2025 Reported: 04/04/2025

04/04/2025 Sampling Type:

Applyzod By: 14

Project Name: BENSON SHUGART WATER FLOOD UNIT Project Number: 2411

Project Location: EDDY CO NM

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By: Tamara Oldaker

04/01/2025

#### Sample ID: CS - 2 (1.75') (H251958-02)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	107	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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#### Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

 Received:
 04/02/2025
 Sam

 Reported:
 04/04/2025
 Sam

Project Name: BENSON SHUGART WATER FLOOD UNIT

Project Number: 2411

Project Location: EDDY CO NM

Sampling Date: 04/01/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: SW - 1 (1.75') (H251958-03)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	96.1	% 40.6-15	3						

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#### 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
Project Name: BENSON SHUGART WATER FLOOD UNIT

Sampling Type: Soil

Project Number: 2411

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: EDDY CO NM

mg/kg

Sample ID: SW - 2 (1.75') (H251958-04)

BTEX 8021B

	<u> </u>								
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.7	% 40.6-15	3						

Analyzed By: JH

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#### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 04/02/2025 Reported:

04/04/2025

Project Name: BENSON SHUGART WATER FLOOD UNIT

Project Number: 2411

Project Location: EDDY CO NM Sampling Date: 04/01/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: SW - 3 (1.75') (H251958-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	102 9	% 40.6-15	3						

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#### 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.7	% 40.6-15	3						

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#### Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 04/02/2025 Reported: 04/04/2025

04/04/2025 Sampling Type: Soil BENSON SHUGART WATER FLOOD UNIT Sampling Condition: Coo

Applyzod By: 14

Sampling Date:

Project Number: 2411

Project Name:

RTFY 8021R

Project Location: EDDY CO NM

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

04/01/2025

#### Sample ID: SW - 5 (1.75') (H251958-07)

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.3	% 40.6-15	3						

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#### 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	103	% 40.6-15	3						

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#### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 04/02/2025 Reported:

Sampling Date: 04/01/2025 04/04/2025 Sampling Type: Soil

Project Name: BENSON SHUGART WATER FLOOD UNIT 2411

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Location: EDDY CO NM

#### Sample ID: SW - 7 (1.75') (H251958-09)

Project Number:

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	108 9	% 40.6-15	3						

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#### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 04/02/2025 Reported:

04/04/2025 BENSON SHUGART WATER FLOOD UNIT

Project Name: Project Number: 2411

Project Location: EDDY CO NM Sampling Date: 04/01/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: SW - 8 (1.75') (H251958-10)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	102 9	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 04/02/2025 Reported: 04/04/2025

Project Name: BENSON SHUGART WATER FLOOD UNIT

Project Number: BENSON SHUGART WATER

2411

Project Location: EDDY CO NM

Sampling Date: 04/01/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: SW - 9 (1.75') (H251958-11)

RTFY 8021R

y True Value QC RPD Qualifier 2.00 0.452
2.00 0.452
2.00 1.09
2.00 2.18
6.00 1.83
y True Value QC RPD Qualifier
400 3.77
ry True Value QC RPD Qualifier
200 2.68
200 0.273

Applyzod By: 14

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04/01/2025

Cool & Intact

Tamara Oldaker

Soil

#### Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 04/02/2025 Reported: 04/04/2025

04/04/2025 Sampling Type:
BENSON SHUGART WATER FLOOD UNIT Sampling Condition:

Analyzed By: JH

Sampling Date:

Sample Received By:

Project Name: BENS Project Number: 2411

BTEX 8021B

Project Location: EDDY CO NM

mg/kg

Sample ID: SW - 10 (1.75') (H251958-12)

	91	9							
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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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					

106 %

40.6-153

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Celeg D. Freene

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

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Celeg D. Freene

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	Real	Relinquished by:				SW-8	SW-7	SW-6	SW-5 (1.75')	SW-4	SW-3 (1.75')	SW-2 (1.75')	SW-1 (1.75')	CS-2 (1.75')	CS-1 (1.75')	Sample Identification	Total Containers:	Sample Custody Seals	Coolel Custody Seals	oler Custody Seal	Received Intact:	SAMPLE RECEIPT	#	Sampler's Name:	Project Location	31.	Name:		City, State ZIP:				Project Manager:									
1		by: (Signature)				SW-8 (1.75')	SW-7 (1.75')	SW-6 (1.75')	(1.75')	SW-4 (1.75')	(1.75')	(1.75')	(1.75')	1.75')	1.75')	ntification				Ye					· Ec		Benson Shugart Waterflood Unit #011	432-813-8988	Midiand, IA 79701	Midland TY 70	310 West Wall Ste. 500	Carmona Resources	Ashton Thielke									
		/				4/1/2025	4/1/2025	4/1/2025	4/1/2025	4/1/2025	4/1/2025	4/1/2025	4/1/2025	4/1/2025	4/1/2025	Date		_	N N	No (N/A)	Yes No	Temp Blank:		KR	Eddy Co, NM	2411	art Waterflood L		9701	3701	Ste. 500	ources										
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	a chi	Received by: (Signature	L Ciano		Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	×	×	×	×	×	×	×	×	×	×	Soil		d Temperature:	Temperature Reading:	n Factor:	eter ID:	Wet loe:	Idb, II Tece	TAT starts the	Due Date:	Routine	Turn	Cilidii.	Empil.				,									
	and S	(aln)			s to cmoehri				2		0 0	2	2 6	0 0	2 2	Water Co		いらい	4.9°	+ 0.3°c	#140	Yes No	Wed by Toopin	TAT starts the day received by the	48 Hour Rush	√ Rush	Turn Around	Cilidii.	ThielkeAmC	City, State ZIP	Address:	Company Name:	Bill to: (if different)									
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vised Date 0:			Dat														Sample Comments		NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	$SO_3$	BIS		Na(	HN	Me(	DIV	Preservative Codes							1 of							
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anda Comments	0	8			РН 8			5.31	Corrected Temperature:	Corrected	(		Total Containers:
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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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/31/2025 Reported: 04/01/2025

Project Name: BENSON SHUGART UNIT #11

Project Number: 2411

Project Location: EDDY CO NM

Sampling Date: 03/28/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: BACKFILL SAMPLE (H251894-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.2	% 40.6-15	3						

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Celey D. Keine



#### **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

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Celeg D. Freene

Carmonia Resources   Carmoni	Carmona Resources   Carm	Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time	Date 233-34	200	Ma Lang			Comi
Ashton Thickle   Bilton of affecting   Cammona Resources	Project Mannayer						actived by: (Citable)	R		Relinquished
Cammoral Resources   Cammora	Project Manager	esources.com	om and mcarmona@carmonare	ources.c	rmonares	cmoehring@ca	lease send results to			
Cammona Resources   Bill to (reference)   Cammona Resources   Ca	Project Manager   Ashton Thicks   Ashton Th									
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Page 1   Ashton Thielke   Bill to Iri d'ellevent   Branch   Bountine Inc.   Benison Shugart Unit #11   Deliverables EDD   ADaPT   Other:    A32-813-8988   Franch   Bountine   Preservative	Project Manager   Ashton Thicke   Bilts it element   Cammona Resources   Company Name   Cammona Resources   Cammona Resource									
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Ashton Thielke   Bill to (Ird different)   Carmona Resources   Carmona Resources   Carmona Resources   Carmona Resources   Company Name:   Carmona Resources   Carmo	Project Manager:   Ashton Thicke   Bill to: (I definerent)   Carmona Resources   Car		C			206	Corrected Temperature:		94	Total Container
Ashton Thielke	Project Manager: Ashton Thielike Company Name Carmona Resources City, State ZIP: Midland, TX 79701 City, State ZIP: Morrier City, State ZIP: Midland, TX 79701 City, State ZIP: Morrier Ci		hlori			-	Temperature Reading:	No (N/A)	Seals:	Sample Custod
Ashton Thielke   Bill to: (if different)   Carmona Resources   Company Name:   Address:   A	Project Manager   Ashton Thicke   Bill to (if efficient)   Cammona Resources   Company Name   Cammona Resources   Cammona Resources   Company Name   Cammona Resources   Company Name   Cammona Resources   Cammo		ide 4				Correction Factor	No (N/A)		Cooler Custody
Setting Thielike   Bill to: (if different)   Carmona Resources   Carmona Resources   Temps Block   Carmona Resources   Carmo	Project Manager:   Ashton Thielke   Bill to: (rid fflewart)   Carmona Resources   Company Name:   Carmona Resources   Company Name:   Carmona Resources   City. State ZIP.   Midland, TX 79701   City. State ZIP.   Midland, TX 79701   City. State ZIP.   Midland, TX 79701   City. State ZIP.   Project Name:   432-813-8988   Email:   Turn Around   Project Name:   Benson Shugart Unit: #11   Turn Around   Project Location   Eddy Co, NM   Due Date:   24 Hour Rush   Project Location   Eddy Co, NM   Carmona Resources com   Code		500			S	Thermometer In			Received Intac
Ed Manager         Ashton Thielke         Bill to: (if different)         Carmona Resources         Fresources         Carmona Resources         Fresources         Vork Order Comments         Page11	Project Manager:   Ashton Thielike   Bill to: (if different)   Carmona Resources   Carmona Resources   Carmona Resources   Carmona Resources   Company Name:   Carmona Resources			) + M	ers	/ed by 4:30pm	lab, ii recei		CEIPT	SAMPLE R
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Manager:     Ashton Thielke     Bill to: (if different)     Carmona Resources     Page 1       Iny Name:     Carmona Resources     Company Name:     Carmona Resources     Work Order Comments       S:     310 West Wall Ste. 500     Address:     Program: UST/PST   PRP   Brownfields   RRC   State of Project:       ate ZIP:     Midland, TX 79701     City, State ZIP:     City, State ZIP:     Reporting: Level III   Level III   PST/UST   TRRP   Reporting: Level III   PST/UST   TrrPR   Reporting: Level III   PST/UST   TrrPR   Reporting: Level III   PST/UST   TrrPRPR   Reporting: Level III   PST/UST   TrrPRPRPRPRPRPRPRPRPRPRPRPRPRPRPRPRPRPRP	Project Manager:   Ashton Thielke   Bill to: (if different)   Carmona Resources   Carmona Resources   Carmona Resources   210 Work Order Comments   210 West Wall Ste. 500   Address:   210 Work Order Comments   210 Work Order C		ANALYSIS RE		Pres.	✓ Rush	Routine	2411	0	Floject Numbe
Manager:     Ashton Thielke     Bill to: (if different)     Carmona Resources     Work Order Comments       s:     310 West Wall Ste. 500     Address:     Address:     Program: UST/PST   PRP   Brownfields   RRC   State of Project:       ate ZIP:     Midland, TX 79701     City, State ZIP:     State of Project:       432-813-8988     Email: ThielkeA@Carmonaresources.com     Reporting: Level III   Level III   PST/UST   FRP   Reporting: Level III   PST/UST   FRP   Reporting: Level III   PST/UST   FRP   Reporting: Level III   PST/UST   PRP   Reporting: Level III   PST/UST   PST/US	Project Manager   Ashton Thielke   Bill to: (if different)   Carmona Resources   Company Name:   Carmona Resources   Carmona Re	ADaPT L				Around		nson Shugart Unit ∌		Project Name
Manager:     Ashton Thielke     Bill to: (if different)     Carmona Resources     Work Order Comments       s:     310 West Wall Ste. 500     Address:     Address:     Program: UST/PST   PRP   Brownfields   RRC       ate ZIP:     Midland, TX 79701     City, State ZIP:     State of Project:	Project Manager: Ashton Thielke  Company Name: Carmona Resources  City State ZIP: Midland, TX 79701  City State ZIP: Midland, TX 79701  City State ZIP: Midland, TX 79701  City State ZIP: Company Name: Carmona Resources  Work Order No: 1135   Page 1   1   1   1   1   1   1   1   1   1	Level III		Irces.com	nonareso	ThielkeA@Car	Email:	8988	432-813-	r iola.
Page 1   1   1   1   1   1   1   1   1   1	Project Manager:   Ashton Thielke   Bill to: (if different)   Carmona Resources   Page 1					City, State ZIP:		TX 79701		City, State ZI
Page 1   P	Project Manager: Ashton Thielke Company Name: Carmona Resources Company Name: Company	ST ☐PRP ☐Brownfields ☐RRC				Address:		t Wall Ste. 500		Audiess.
Ashton Thielke Bill to: (if different) Carmona Resources Page 1	Project Manager: Ashton Thielike  Bill to: (if different)   Carmona Resources   Carmon	Work Order Comments				Company Name		Resources		Address Na
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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 453183

#### **QUESTIONS**

ı	Operator:	OGRID:
ı	CHEVRON U S A INC	4323
ı	6301 Deauville Blvd	Action Number:
ı	Midland, TX 79706	453183
ı		Action Type:
ı		[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.

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

QUESTIONS, Page 2

Action 453183

QUESTI	ONS (continued)
Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	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.	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 s  The source of the release has been stopped	I ·
The impacted area has been secured to protect human health and the environment	True 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/17/2025

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

QUESTIONS, Page 3

Action 453183

#### **QUESTIONS** (continued)

 Operator:
 OGRID:

 CHEVRON U S A INC
 4323

 6301 Deauville Blvd
 Action Number:

 Midland, TX 79706
 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 ar	nd 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	
Nomediation Flan	
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 m	nilligrams 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 quess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 453183

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	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.

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.

Released to Imaging: 6/13/2025 11:16:46 AM

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

QUESTIONS, Page 5

Action 453183

**QUESTIONS** (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	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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## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

Action 453183

QUESTIONS (continued)

Operator:	OGRID:	
CHEVRON U S A INC	4323	
6301 Deauville Blvd	Action Number:	
Midland, TX 79706	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.

Name: Amy Barnhill
Title: Waste & Water Specialist
Email: ABarnhill@chevron.com
Date: 04/17/2025

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

QUESTIONS, Page 7

Action 453183

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 453183

#### **CONDITIONS**

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	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