

CARMONA RESOURCES



## SITE INFORMATION

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**Closure Report**  
**Benson Shugart Waterflood Unit #023**  
**Incident #: NMCS0124832969**  
**Eddy County, New Mexico**  
**Unit J Sec 25 T18S R30E**  
**32.715744°, -103.9223175°**

**Produced Water Release**  
**Point of Release: Corrosion in injection line**  
**Release Date: 07.05.2001**  
**Volume Released: 333 Barrels of Produced Water**  
**Volume Recovered: 0 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**  
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**TABLE OF CONTENTS****1.0 SITE INFORMATION AND BACKGROUND****2.0 SITE CHARACTERIZATION AND GROUNDWATER****3.0 NMAC REGULATORY CRITERIA****4.0 SITE ASSESSMENT ACTIVITIES****5.0 REMEDIATION ACTIVITIES****6.0 RECLAMATION ACTIVITIES****7.0 CONCLUSIONS****FIGURES**

<b>FIGURE 1</b>	<b>OVERVIEW</b>	<b>FIGURE 2</b>	<b>TOPOGRAPHIC</b>
<b>FIGURE 3</b>	<b>SAMPLE LOCATION</b>	<b>FIGURE 4A – 4B</b>	<b>EXCAVATION</b>
<b>FIGURE 5</b>	<b>RECLAMATION AREA</b>		

**APPENDICES**

<b>APPENDIX A</b>	<b>TABLES</b>
<b>APPENDIX B</b>	<b>PHOTOS</b>
<b>APPENDIX C</b>	<b>NMOCD CORRESPONDENCE</b>
<b>APPENDIX D</b>	<b>SITE CHARACTERIZATION AND GROUNDWATER</b>
<b>APPENDIX E</b>	<b>LABORATORY REPORTS</b>



April 22, 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 #023**  
**Incident ID: NMCS0124832969**  
**Chevron U.S.A., Inc.**  
**Site Location: Unit J, S25, T18S, R30E**  
**(Lat 32.715744°, Long -103.9223175°)**  
**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 #023. The site is located at 32.715744°, -103.9223175° within Unit J, S25, 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 5, 2001, caused by corrosion in an injection line releasing approximately three-hundred thirty-three (333) barrels of produced water, of which zero (0) 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 0.89 miles West of the site in Unit P, S26, T18S, R30E and was drilled in 1968. The well has a reported depth to groundwater of 204.60' below ground surface (ft 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 March 4, 2025, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release utilizing an air rotary rig. A total of six (6) soil samples (S-1 through S-6), and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 7' bgs in the areas requested by the NMOCD during previous communications. 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 25, 2025, and March 28, 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 24, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 5.5'-5.75' bgs, and the area of S-6 was excavated to a depth of 4.5' bgs. A total of twenty-one (21) confirmation floor samples were collected (CS-1 through CS-21), and twelve (12) sidewall samples (SW-1 through SW-12) 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 4A and 4B.

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. Approximately 3,900 square feet of contamination was remediated, resulting in 853 cubic yards of material excavated and transported offsite for proper disposal.

#### **6.0 Reclamation Activities**

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. On April 18, 2025, the backfilled areas in the pasture were seeded via hand distribution with the appropriate pounds of pure live seed per acre. The seed mixture used was BLM #2 LPC Seed Mixture. Approximately 40,000 square feet of the site was reclaimed. See Figure 5 for the reclamation area.





## **7.0 Conclusions**

Based on the assessment results and the analytical data, 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

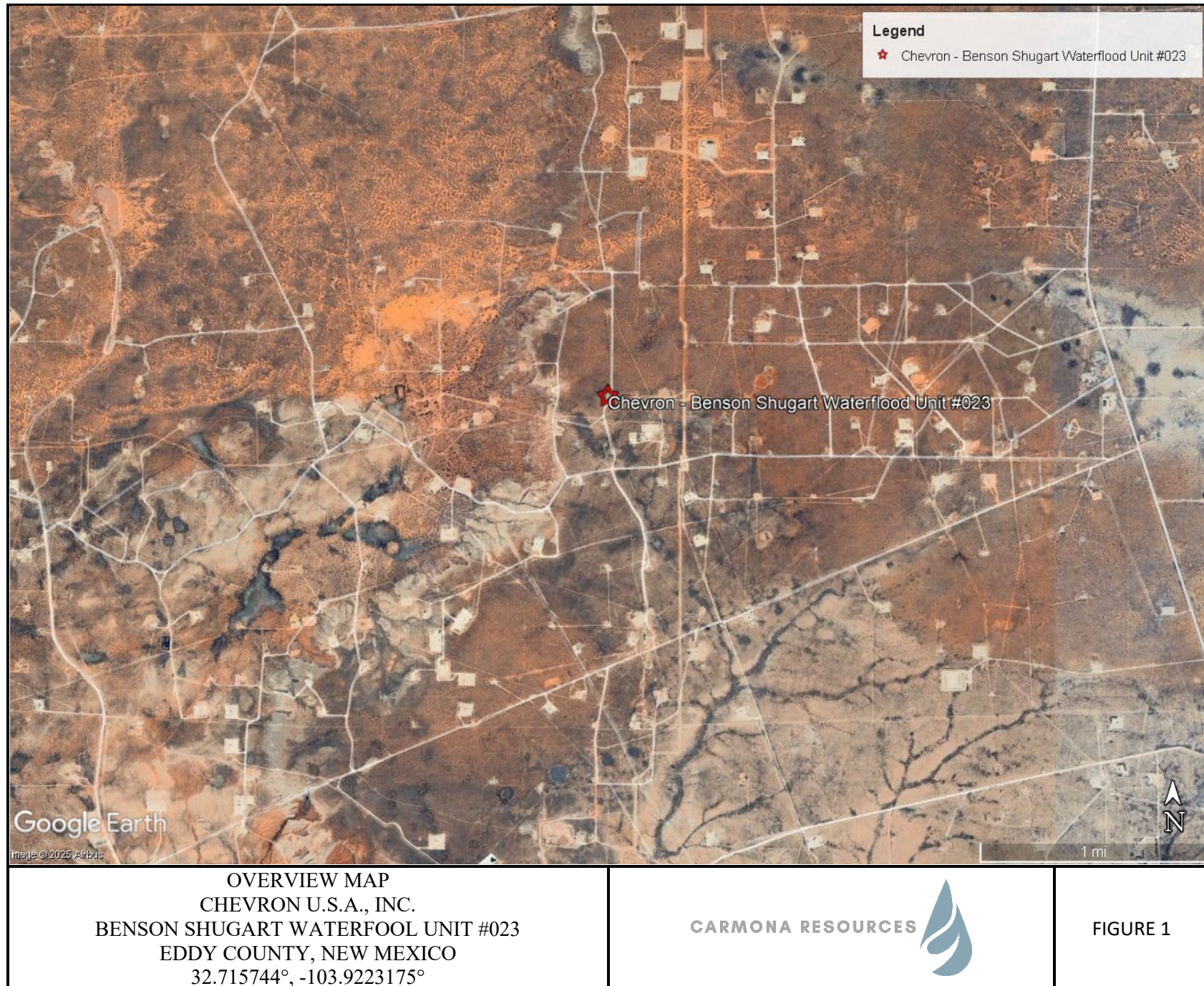
Gilbert Priego  
Project Manager

Riley Plogger  
Project Manager

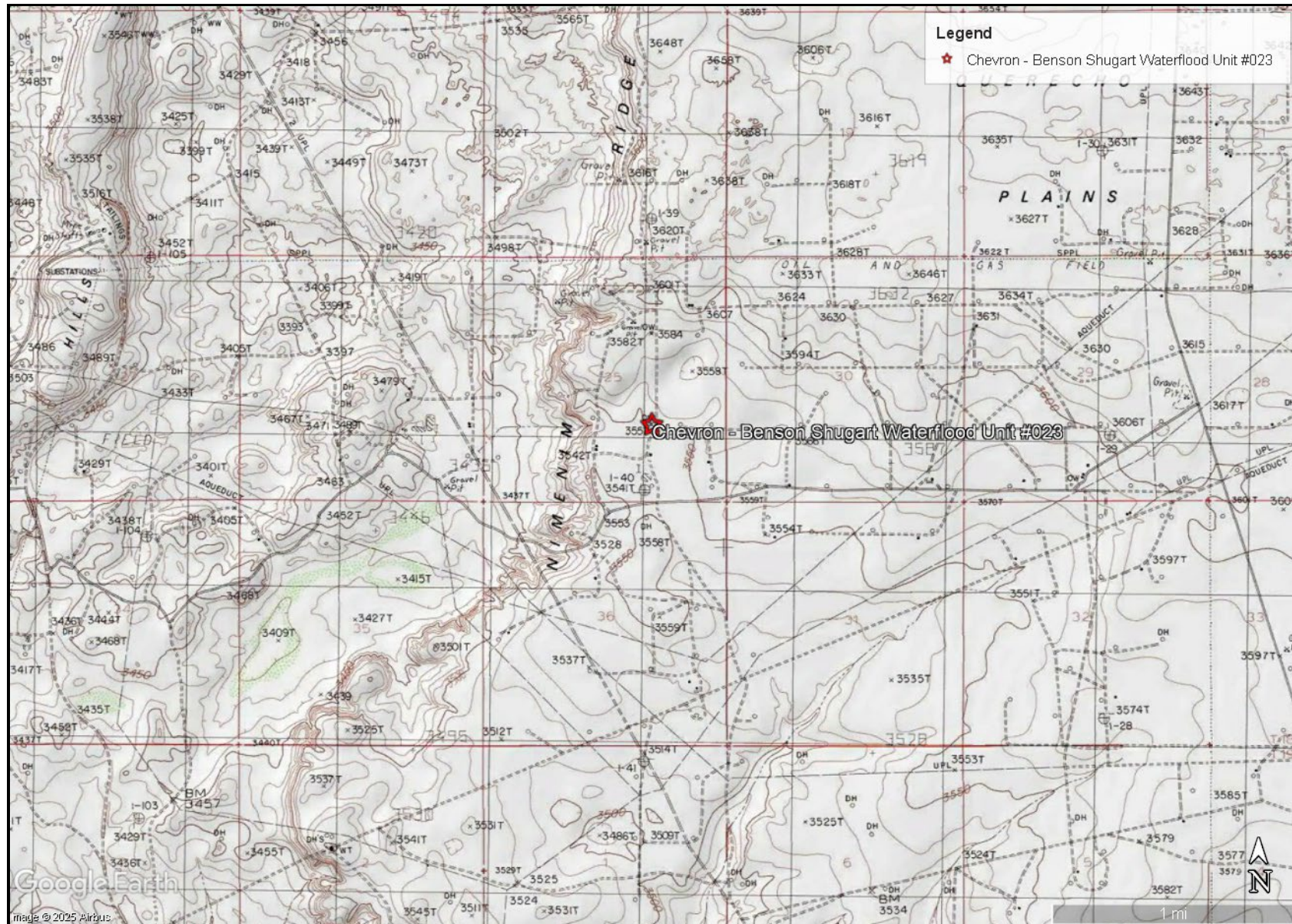
## FIGURES

CARMONA RESOURCES









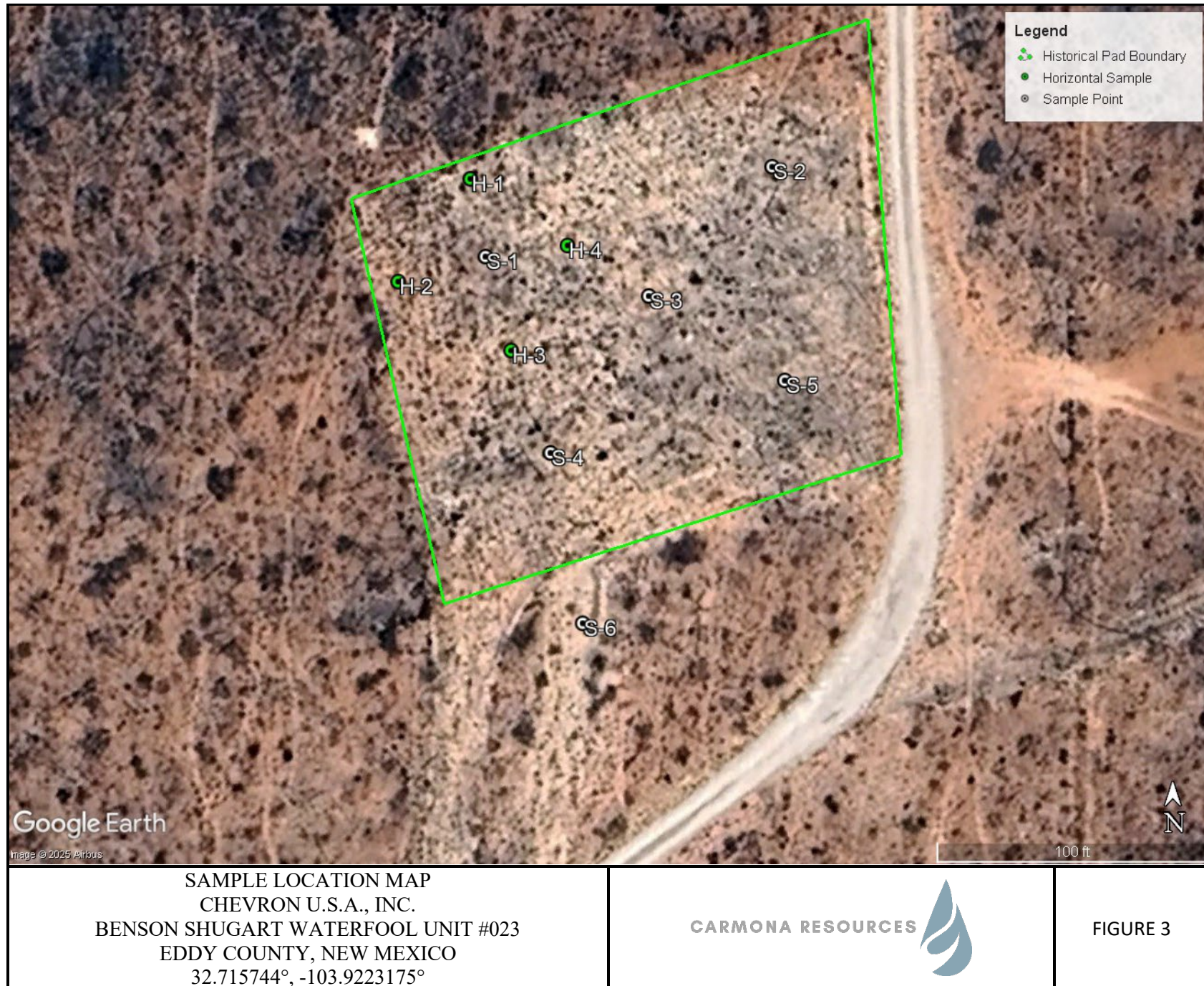
TOPOGRAPHIC MAP  
CHEVRON U.S.A., INC.  
BENSON SHUGART WATERFOOL UNIT #023  
EDDY COUNTY, NEW MEXICO  
32.715744°, -103.9223175°

## CARMONA RESOURCES

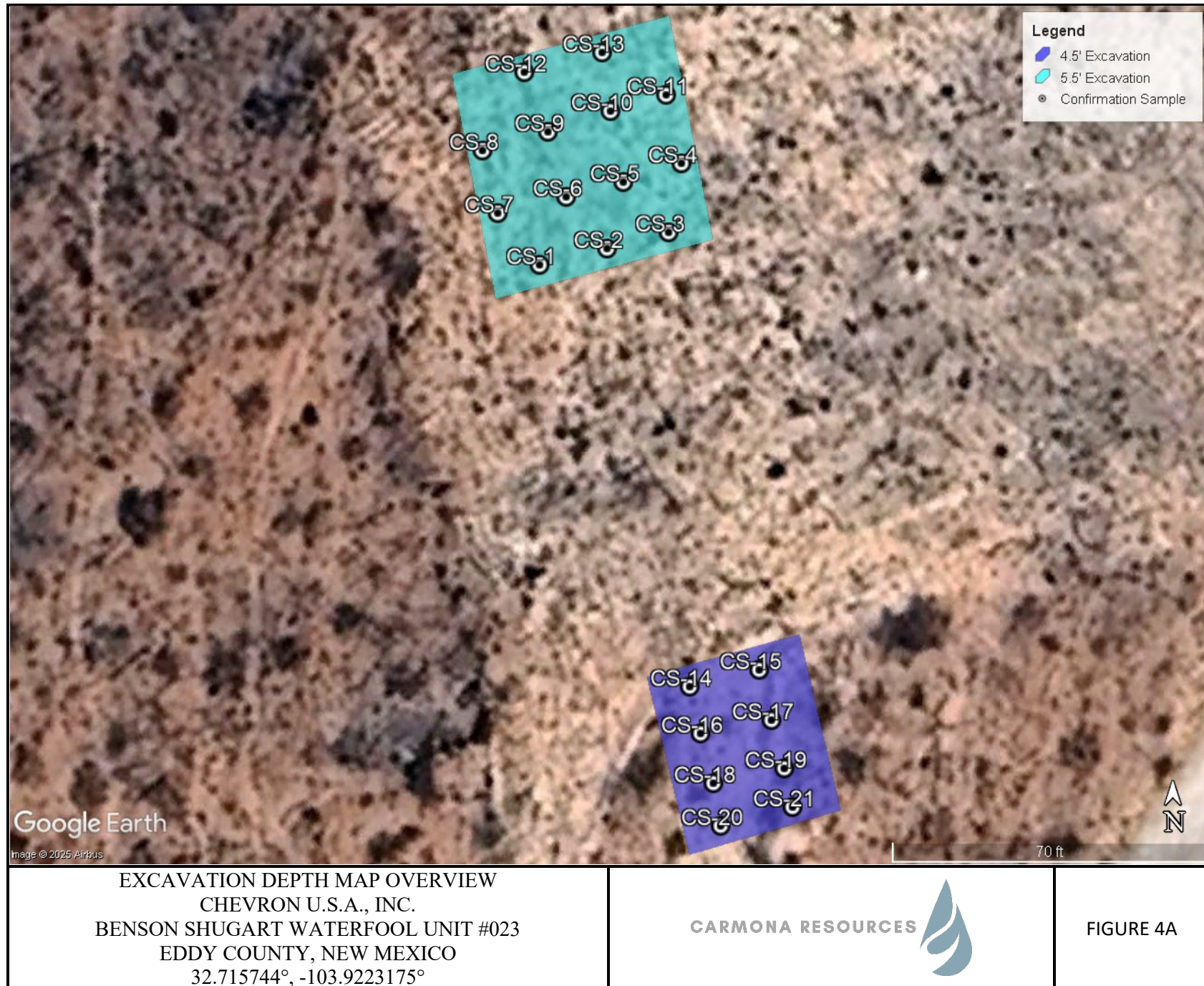


FIGURE 2

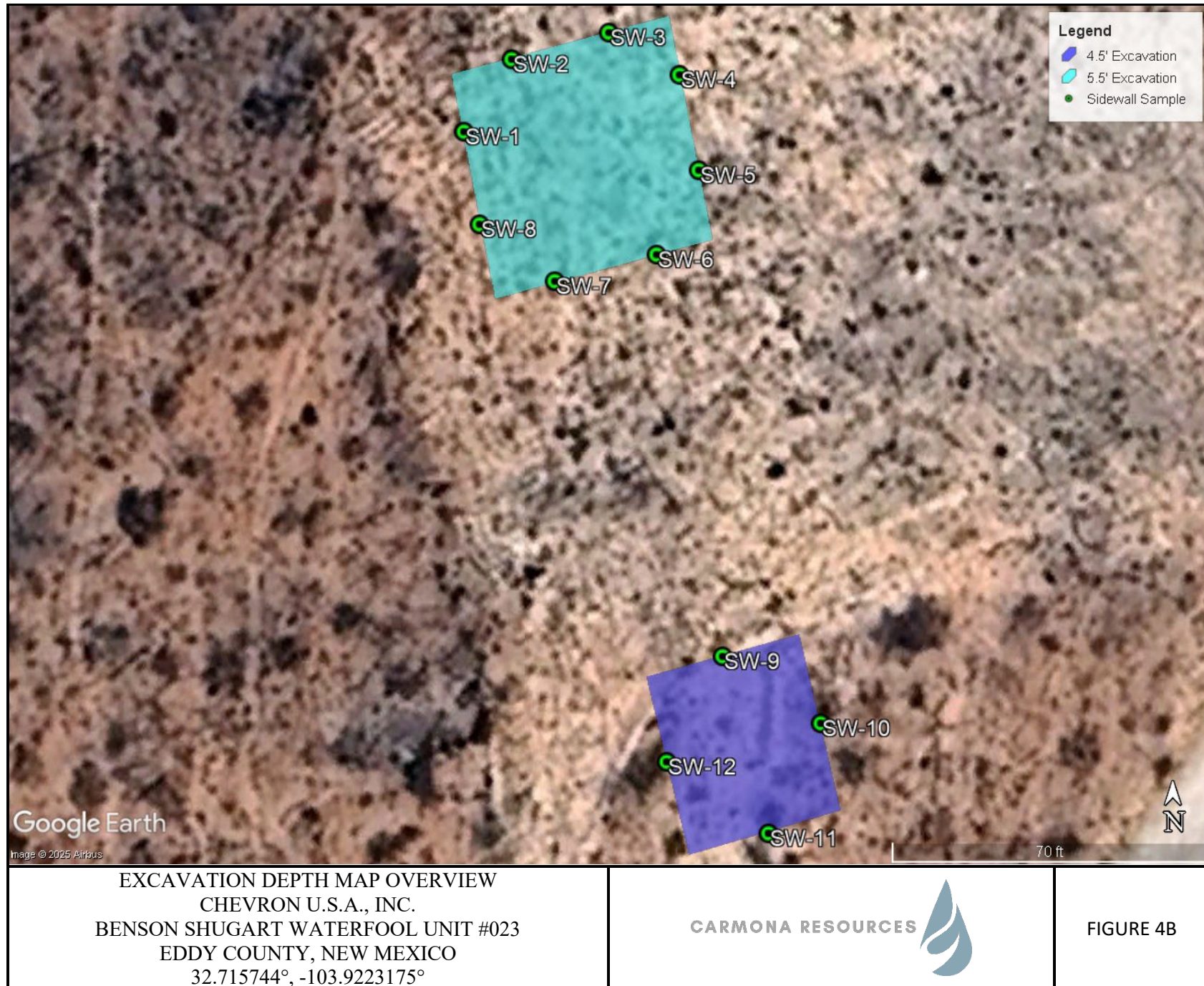


















## APPENDIX A

CARMONA RESOURCES



**Table 1**  
**Chevron**  
**Benson Shugart Waterflood Unit #023**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>S-1</b>	3/4/2025	0-1.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	10.7
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	451
	"	2.0'	<49.9	<b>197</b>	<49.9	<b>197</b>	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	560
	"	3.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	488
	"	4.0'	<49.8	<b>399</b>	<49.8	<b>399</b>	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<b>1,020</b>
	"	5.0'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<b>1,860</b>
	"	6.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	0.00708	<0.00200	0.0109	0.0180	50.9
	"	7.0'	<49.8	<49.8	<49.8	<49.8	<0.00198	0.00600	<0.00198	0.00740	0.0134	15.3
<b>S-2</b>	3/4/2025	0-1.0'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.6
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	23.0
	"	2.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	34.1
	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	35.9
	"	4.0'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	32.9
	"	5.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	22.2
<b>S-3</b>	3/4/2025	0-1.0'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<10.0
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<10.0
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<10.1
	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	91.1
	"	4.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	60.5
	"	5.0'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	33.7
<b>Regulatory Criteria<sup>A</sup></b>							<b>100 mg/kg</b>	<b>10 mg/kg</b>			<b>50 mg/kg</b>	<b>600 mg/kg</b>

(-) Not Analyzed

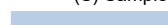
<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

 Removed

**Table 1**  
**Chevron**  
**Benson Shugart Waterflood Unit #023**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>S-4</b>	3/4/2025	0-1.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.98
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	19.6
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	71.7
	"	3.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	55.1
	"	4.0'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	46.3
	"	5.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	25.8
<b>S-5</b>	3/4/2025	0-1.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<10.1
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<10.1
	"	2.0'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	32.3
	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	141
	"	4.0'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	136
	"	5.0'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	110
<b>S-6</b>	3/4/2025	0-1.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<10.0
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	81.4
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	157
	"	3.0'	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>605</b>
	"	4.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>737</b>
	"	5.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	532
	"	6.0'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	409
<b>Regulatory Criteria<sup>A</sup></b>							<b>100 mg/kg</b>	<b>10 mg/kg</b>			<b>50 mg/kg</b>	<b>600 mg/kg</b>

(-) 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 #023**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	3/4/2025	0-0.5'	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	0.0466	<0.00398	0.0466	<9.94
H-2	3/4/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.90
H-3	3/4/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<9.98
H-4	3/4/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<10.1
Regulatory Criteria <sup>A</sup>							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

(H) Horizontal Sample

**Table 2**  
**Chevron**  
**Benson Shugart Waterflood Unit #023**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
CS-2	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
CS-3	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
CS-4	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-5	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
CS-6	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
CS-7	3/27/2025	5.5'	<10.0	<10.0	19.4	19.4	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-8	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-9	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-10	3/27/2025	5.5'	<10.0	71.9	118	190	<0.050	<0.050	<0.050	<0.150	<0.300	176
	3/28/2025	5.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-11	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-12	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-13	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-14	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-15	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-16	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-17	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-18	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-19	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-20	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-21	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
Backfill Sample	3/28/2025	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Regulatory Criteria <sup>A</sup>							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

(CS) Confirmation Sample

Removed

**Table 2**  
**Chevron**  
**Benson Shugart Waterflood Unit #023**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>SW-1</b>	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
<b>SW-2</b>	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
<b>SW-3</b>	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
<b>SW-4</b>	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
<b>SW-5</b>	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
<b>SW-6</b>	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
<b>SW-7</b>	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
<b>SW-8</b>	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
<b>SW-9</b>	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
<b>SW-10</b>	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
<b>SW-11</b>	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
<b>SW-12</b>	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
<b>Regulatory Criteria<sup>A</sup></b>							<b>100 mg/kg</b>	<b>10 mg/kg</b>			<b>50 mg/kg</b>	<b>600 mg/kg</b>

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(SW) Sidewall Sample

## APPENDIX B

CARMONA RESOURCES





# PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

**Photograph No. 1**

**Facility:** Benson Shugart Waterflood Unit #023

**County:** Eddy County, New Mexico

**Description:**

View West, area of CS-1 through CS-13.

**Photograph No. 2**

**Facility:** Benson Shugart Waterflood Unit #023

**County:** Eddy County, New Mexico

**Description:**

View North, area of CS-1 through CS-13.

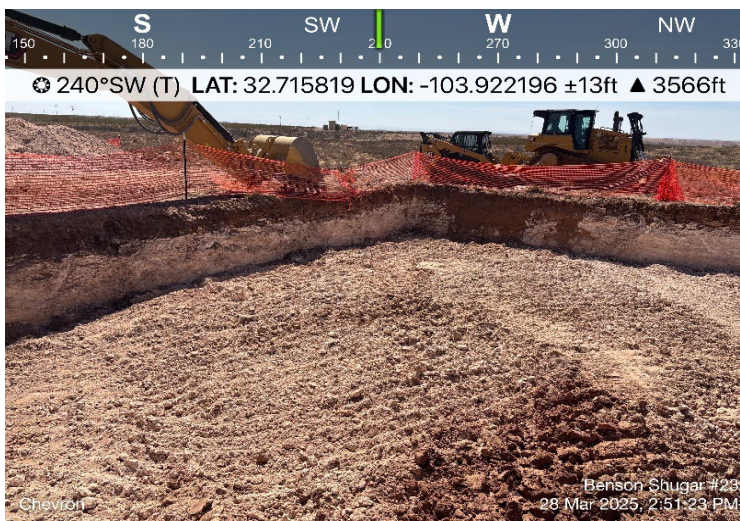
**Photograph No. 3**

**Facility:** Benson Shugart Waterflood Unit #023

**County:** Eddy County, New Mexico

**Description:**

View Southwest, area of CS-1 through CS-13.



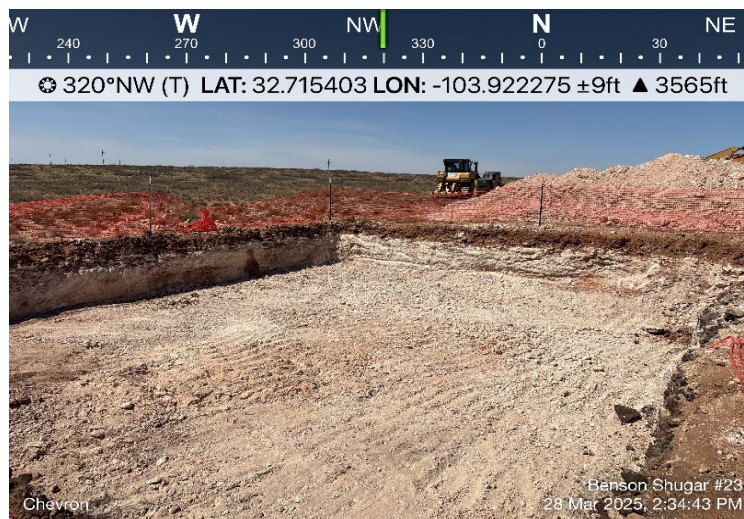


**PHOTOGRAPHIC LOG**

Chevron U.S.A., Inc.

**Photograph No. 4****Facility:** Benson Shugart Waterflood Unit #023**County:** Eddy County, New Mexico**Description:**

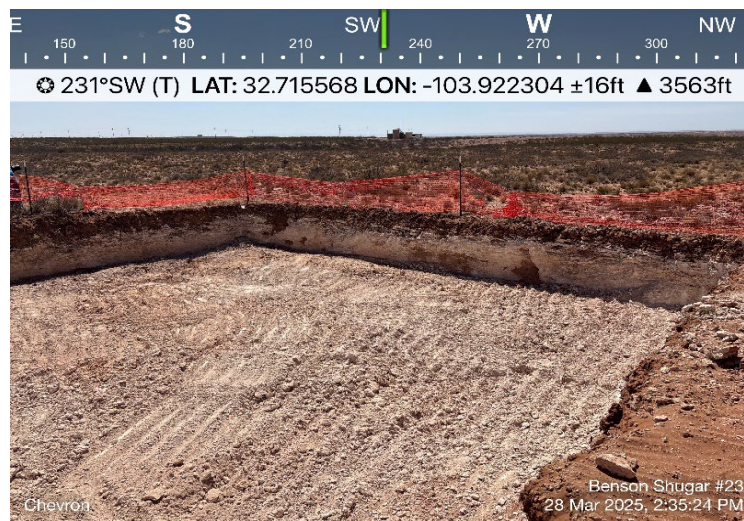
View Northwest, area of CS-14 through CS-21.

**Photograph No. 5****Facility:** Benson Shugart Waterflood Unit #023**County:** Eddy County, New Mexico**Description:**

View Southwest, area of CS-14 through CS-21.

**Photograph No. 6****Facility:** Benson Shugart Waterflood Unit #023**County:** Eddy County, New Mexico**Description:**

View Southwest, area of CS-14 through CS-21.





# PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

## Photograph No. 7

**Facility:** Benson Shugart Waterflood Unit #023

**County:** Eddy County, New Mexico

**Description:**

View Southwest of Backfill area.



## Photograph No. 8

**Facility:** Benson Shugart Waterflood Unit #023

**County:** Eddy County, New Mexico

**Description:**

View North of Backfill area.



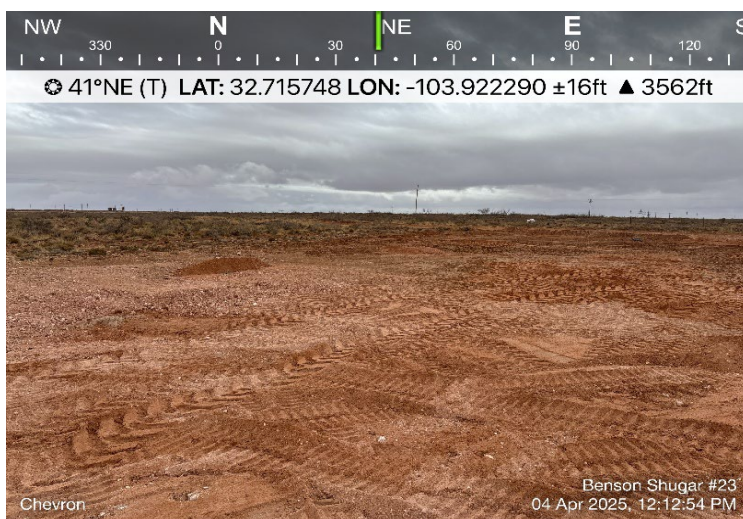
## Photograph No. 9

**Facility:** Benson Shugart Waterflood Unit #023

**County:** Eddy County, New Mexico

**Description:**

View Northeast of Backfill area.



# PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

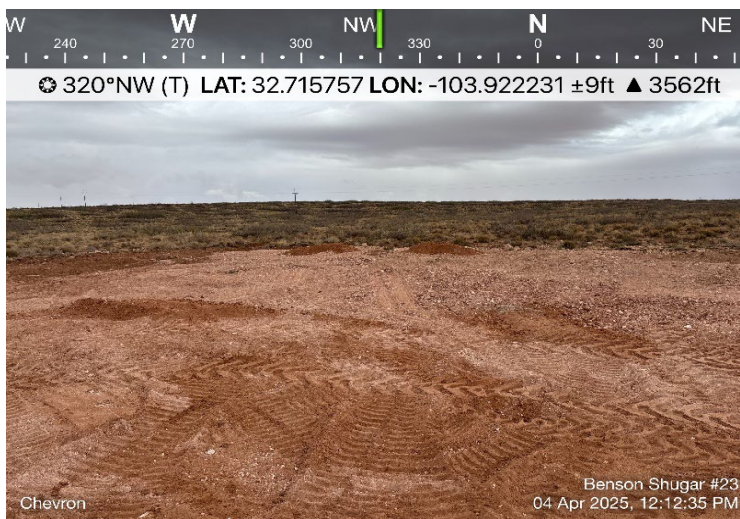
## Photograph No. 10

**Facility:** Benson Shugart Waterflood Unit #023

**County:** Eddy County, New Mexico

**Description:**

View Northwest of Backfill area.



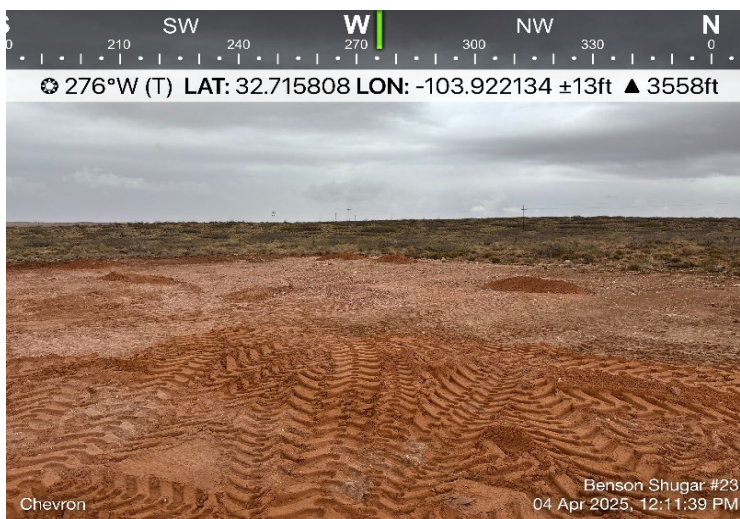
## Photograph No. 11

**Facility:** Benson Shugart Waterflood Unit #023

**County:** Eddy County, New Mexico

**Description:**

View Northeast of Backfill area.



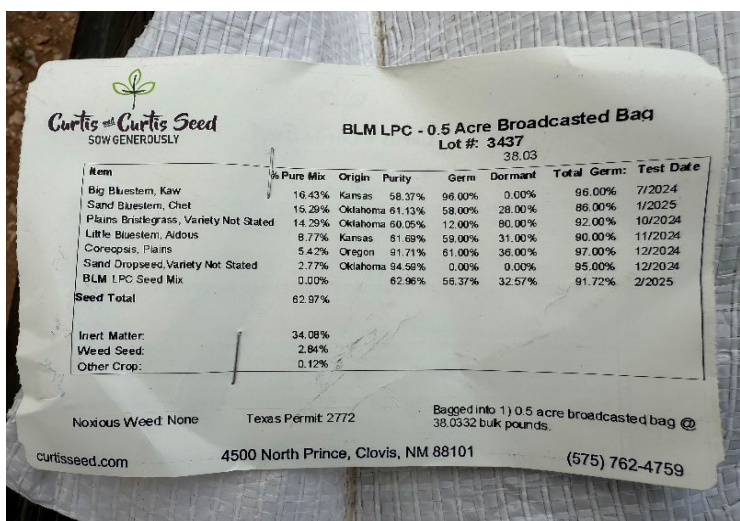
## Photograph No. 12

**Facility:** Benson Shugart Waterflood Unit #023

**County:** Eddy County, New Mexico

**Description:**

View of seed mixture.





## PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

## Photograph No. 13

**Facility:** Benson Shugart Waterflood Unit  
#023

**County:** Eddy County, New Mexico

**Description:**

View West, close-up of seed mixture in ground.



## Photograph No. 14

**Facility:** Benson Shugart Waterflood Unit  
#023

**County:** Eddy County, New Mexico

**Description:**

View Southwest of reseeded area.



## APPENDIX C

CARMONA RESOURCES



**Ashton Thielke**

---

**From:** Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>  
**Sent:** Wednesday, February 19, 2025 10:12 AM  
**To:** Ashton Thielke  
**Cc:** Barnhill, Amy  
**Subject:** RE: [EXTERNAL] BENSON SHUGART WATERFLOOD UNIT #023 (09.06.2001) - nMCS0124832969 - Site Assessment Plan

Thanks Ashton. I forgot to include that a copy of the plan and the approval needs to be submitted with the next C-141 report.

Thank you,

**Brittany Hall** ● Environmental Specialist  
Environmental Bureau Projects Group  
EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87110  
505.517.5333 | [Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd/>

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <https://www.emnrd.nm.gov/oecd/oecd-announcements-and-notifications/> under “2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS”.

The Digital C-141 guidance documents can be found at <https://www.emnrd.nm.gov/oecd/oecd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/oecd/oecd-forms/>.

---

**From:** Ashton Thielke <ThielkeA@carmonaresources.com>  
**Sent:** Wednesday, February 19, 2025 9:04 AM  
**To:** Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>  
**Cc:** Barnhill, Amy <ABarnhill@chevron.com>  
**Subject:** RE: [EXTERNAL] BENSON SHUGART WATERFLOOD UNIT #023 (09.06.2001) - nMCS0124832969 - Site Assessment Plan

Thanks Brittany,

Received and will get started on this project in the coming weeks!

Ashton Thielke  
Environmental Manager  
310 West Wall Street, Suite 500  
Midland TX, 79701  
M: 432-813-8988 C: 281-753-5659  
[ThielkeA@carmonaresources.com](mailto:ThielkeA@carmonaresources.com)  
[Environmental Consulting Firm - Carmona Resources](#)

CARMONA RESOURCES





**From:** Hall, Brittany, EMNRD <[Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)>

**Sent:** Wednesday, February 19, 2025 10:01 AM

**To:** Ashton Thielke <[ThielkeA@carmonaresources.com](mailto:ThielkeA@carmonaresources.com)>

**Cc:** Barnhill, Amy <[ABarnhill@chevron.com](mailto:ABarnhill@chevron.com)>

**Subject:** RE: [EXTERNAL] BENSON SHUGART WATERFLOOD UNIT #023 (09.06.2001) - nMCS0124832969 - Site Assessment Plan

Ashton,

OCD approves the sampling plan with the following conditions:

- OCD is requesting one additional borehole to be investigated marked by the red X that can be seen on the snip of the provided map below. This borehole must be collected in the same manner as proposed in the sampling plan.



- If these samples are intended to be used as remediation closure samples (i.e. no contamination is found during the assessment), a C-141N must be submitted at least 2 business days prior to the samples being collected.
- Based on research that I have done, the closure criteria for this release will be the most stringent closure criteria (depth to groundwater is less than 50 feet) found on Table I of 19.15.29 NMAC as there are no groundwater wells within 0.5 miles of the site.
- All sample points must have samples collected at 0-1', 1.5', 2', 3', and 4' bgs, or deeper until any contamination is fully delineated. Auger refusal will not be accepted as a reason to not sample at all depths.
- If contamination above the closure criteria is discovered, it must be delineated, both horizontally and vertically, and remediated to the most stringent closure criteria.
- At this time, OCD will not approve a variance for the reclamation and revegetation of this incident. If no contamination is found during the assessment, please resend a variance request for the requirements of 19.15.29.13 NMAC at that time. Please remember that the variance request must comply with the requirements of 19.15.29.14 A. (1) and (2) NMAC which states "A responsible party may file a written

request for a variance from any requirement of 19.15.29 NMAC with the appropriate division district office. The variance request must include: **(1)** a detailed statement explaining the need for a variance; and **(2)** a detailed written demonstration that the variance will provide equal or better protection of fresh water, public health and the environment.” If contamination is found during the assessment, a variance will not be approved as any contamination must be remediated, reclaimed, and revegetated pursuant to 19.15.29 NMAC.

Thank you,

**Brittany Hall** ● Environmental Specialist  
Environmental Bureau Projects Group  
EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87110  
505.517.5333 | [Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd/>

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <https://www.emnrd.nm.gov/oecd/oecd-announcements-and-notifications/> under “2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS”.

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---

**From:** Ashton Thielke <[ThielkeA@carmonaresources.com](mailto:ThielkeA@carmonaresources.com)>  
**Sent:** Tuesday, February 18, 2025 8:17 AM  
**To:** Hall, Brittany, EMNRD <[Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)>  
**Cc:** Barnhill, Amy <[ABarnhill@chevron.com](mailto:ABarnhill@chevron.com)>  
**Subject:** [EXTERNAL] BENSON SHUGART WATERFLOOD UNIT #023 (09.06.2001) - nMCS0124832969 - Site Assessment Plan

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

Good morning Brittany,

Please see the attached Proposed Sampling Map (Historical & Current Views) as well as some photos attached from our recent site visit (to mark out for a NM811-one call)

We are proposing to sample until we reach a depth of 4.0' or until we delineate any contamination found onsite that exceeds concentrations found on table 1 of NMAC 19.15.29.12/13.

If any contamination is found, vertically & horizontally delineate that area and remediate per NMAC 19.15.29.12/13.

Based off of the current site conditions and knowing that this site has been reclaimed since its P/A in 2015, we would like to request an approval of reclamation and revegetation for this spill incident as there is good evidence of plant life regrown to meet the surrounding area.

This would be documented in the closure report if no contamination is found.

If contamination is found, we will remediate and reclaim per NMAC 19.15.29.12/13.

Please let me know if have any questions!

Thanks!

Ashton Thielke  
Environmental Manager  
310 West Wall Street, Suite 500  
Midland TX, 79701  
M: 432-813-8988 C: 281-753-5659



[ThielkeA@carmonaresources.com](mailto:ThielkeA@carmonaresources.com)

[Environmental Consulting Firm - Carmona Resources](#)

CARMONA RESOURCES



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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 444990

**QUESTIONS**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 444990
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nMCS0124832969
Incident Name	NMCS0124832969 2001 MAJOR A OHR @ 30-015-04544
Incident Type	Other
Incident Status	Closure Not Approved
Incident Well	[30-015-04544] BENSON SHUGART WATERFLOOD UNIT #023

<b>Location of Release Source</b>	
Site Name	Unavailable.
Date Release Discovered	07/05/2001
Surface Owner	Federal

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	3,900
What is the estimated number of samples that will be gathered	28
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/27/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	“(32.715744,-103.9223175) Carmona Resources will be onsite to conduct composite confirmation sampling from 03.27.2025 and will continue until 03.28.2025.”

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 444990

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 444990
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/24/2025

## APPENDIX D

CARMONA RESOURCES



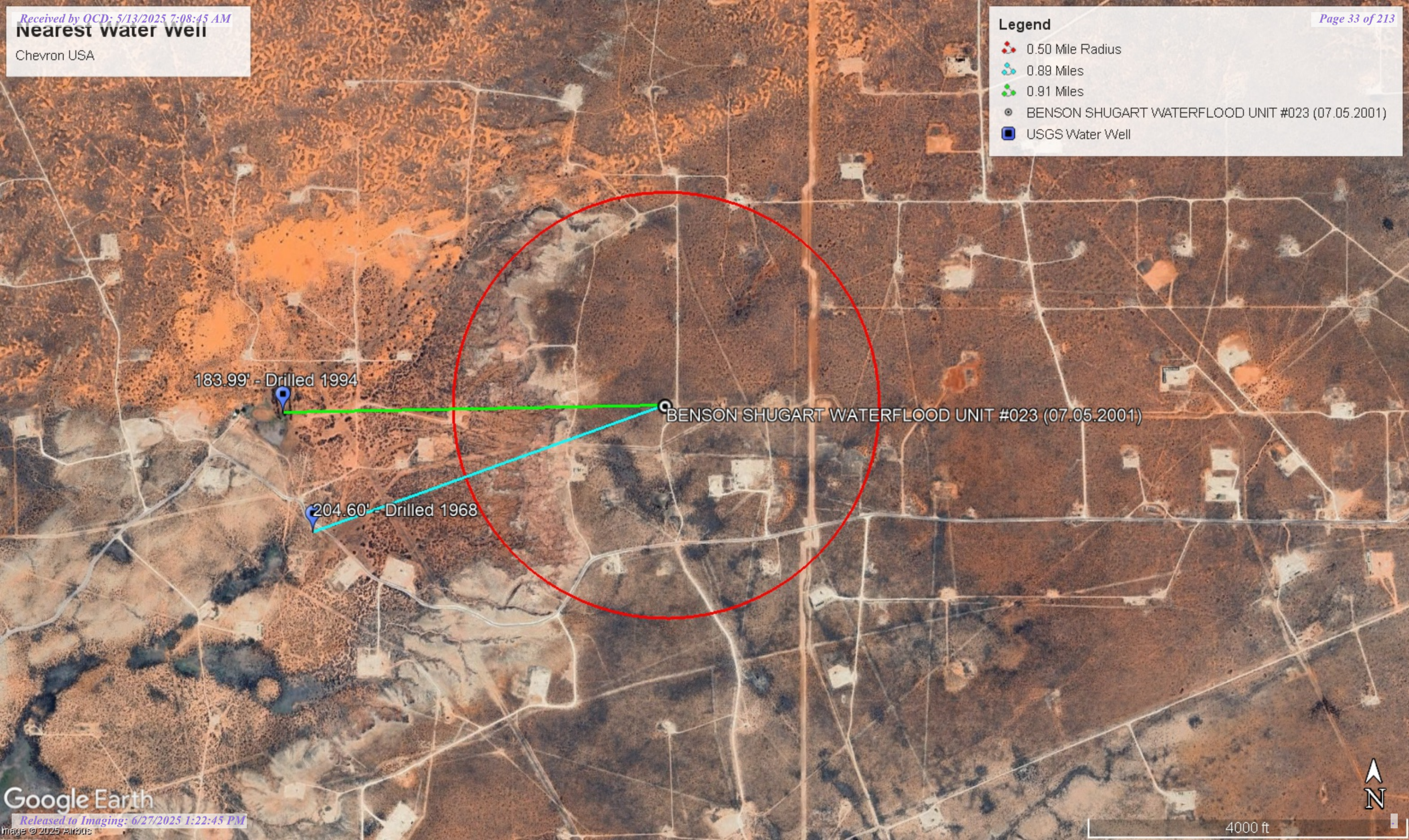


**Nearest water well**

Chevron USA

**Legend**

- 0.50 Mile Radius
- 0.89 Miles
- 0.91 Miles
- BENSON SHUGART WATERFLOOD UNIT #023 (07.05.2001)
- USGS Water Well







**Medium Karst**

Chevron USA

**Legend**

-  BENSON SHUGART WATERFLOOD UNIT #023 (07.05.2001)
-  High
-  Low
-  Medium

 BENSON SHUGART WATERFLOOD UNIT #023 (07.05.2001)







New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
<a href="#">CP 00818 POD1</a>		CP	LE		NW	SE	26	18S	30E	599289.0	3620364.0 *		1709	240		
<a href="#">CP 00767 POD1</a>		CP	ED		SW	NE	35	18S	30E	599300.0	3619158.0 *		2038	500		

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 2

UTM Filters (in meters):

Easting: 600996.68

Northing: 3620288.41

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.



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Geographic Area:  
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Groundwater levels for New Mexico

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**i** 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

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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

Explanation

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



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

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



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Data Category:  
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Groundwater levels for New Mexico

Click to hide state-specific text

**i** Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 324244103561601

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 324244103561601 18S.30E.26.414144

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

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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

Explanation

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

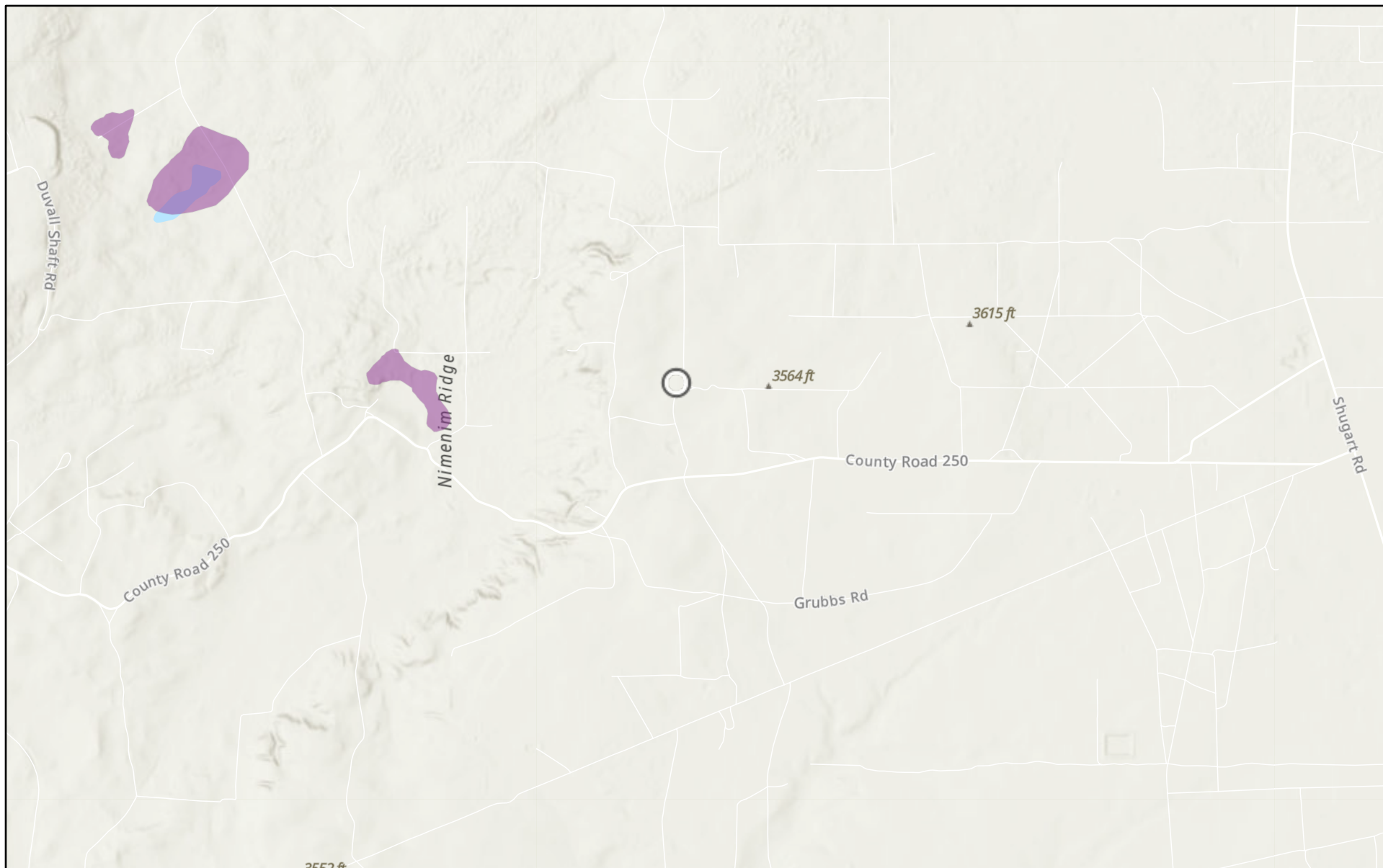
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0.32 0.24 nadww01

# BENSON SHUGART WATERFLOOD UNIT #023 (07.05.2001)

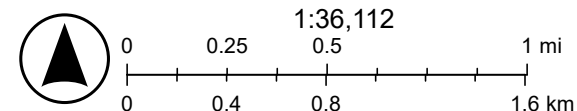


3/12/2025

USA Flood Hazard Areas

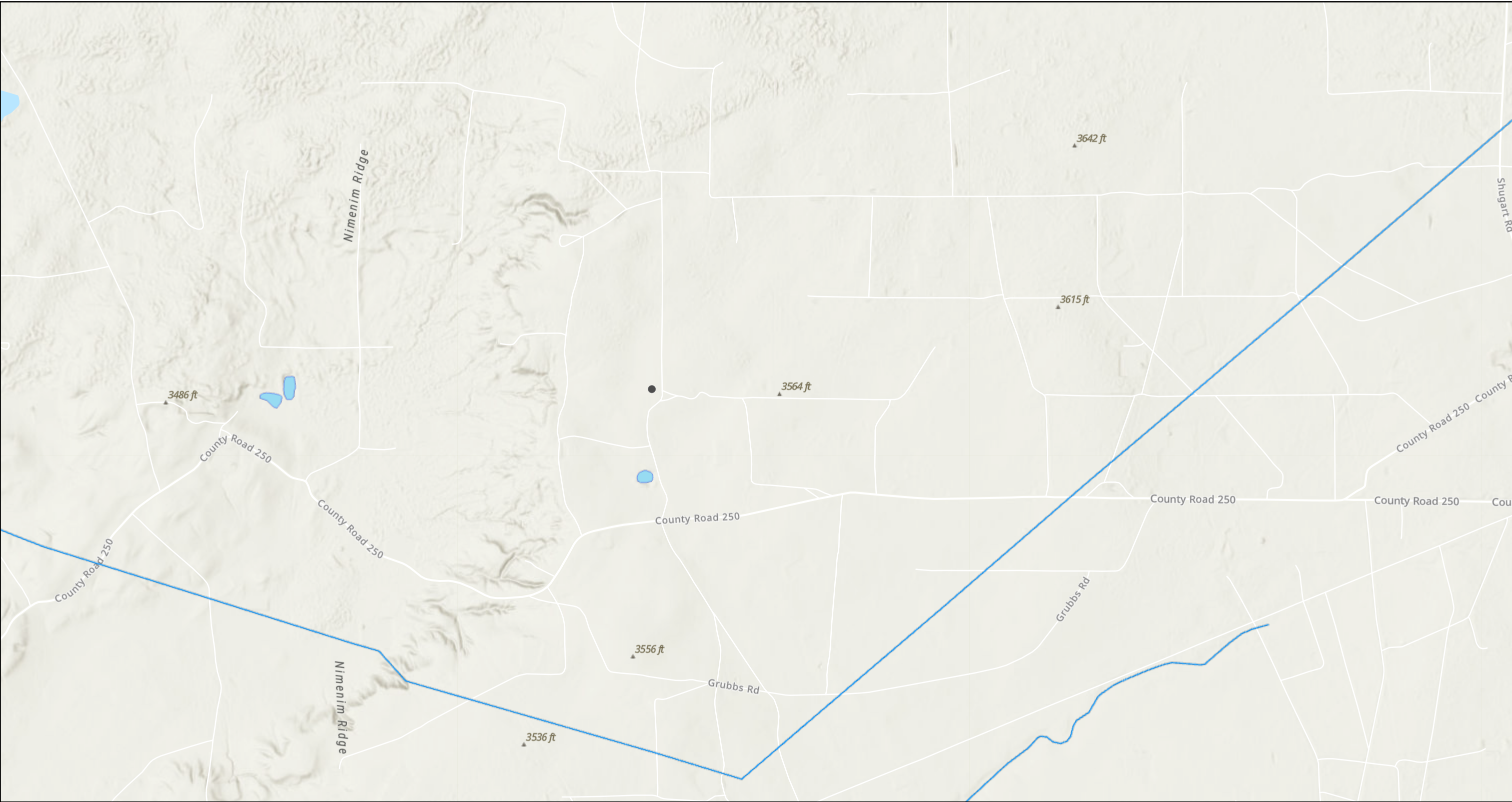
1% Annual Chance Flood Hazard

World\_Hillshade



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

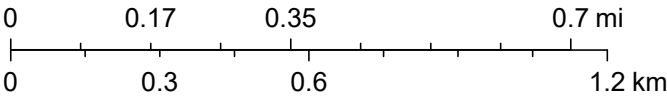
# BENSON SHUGART WATERFLOOD UNIT #023 (07.05.2001)



3/12/2025, 8:53:08 AM

- OSW Water Bodys
- OSE Streams

1:18,056



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

## APPENDIX E

CARMONA RESOURCES







Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 3/12/2025 4:38:15 PM

## JOB DESCRIPTION

Benson Shugart Waterflood #23  
Eddy Co NM

## JOB NUMBER

880-55262-1

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



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3/12/2025 4:38:15 PM

Authorized for release by  
Jessica Kramer, Project Manager  
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Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Laboratory Job ID: 880-55262-1  
SDG: Eddy Co NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	7
Surrogate Summary . . . . .	39
QC Sample Results . . . . .	42
QC Association Summary . . . . .	56
Lab Chronicle . . . . .	66
Certification Summary . . . . .	78
Method Summary . . . . .	79
Sample Summary . . . . .	80
Chain of Custody . . . . .	81
Receipt Checklists . . . . .	86

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14

Definitions/Glossary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Qualifiers

GC 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.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

## Case Narrative

Client: Carmona Resources  
Project: Benson Shugart Waterflood #23

Job ID: 880-55262-1

Job ID: 880-55262-1

Eurofins Midland

**Job Narrative**  
**880-55262-1**

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 3/5/2025 4:08 PM. 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 1.0°C.

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104609 and analytical batch 880-104771 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: Surrogate recovery for the following sample was outside control limits: S-1 (880-55262-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-104474 and 880-104611 and analytical batch 880-104647 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-3 (880-55262-28) and S-5 (880-55262-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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-5 (880-55262-39) and S-5 (880-55262-41). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: S-6 (880-55262-46). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104566 and analytical batch 880-104999 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 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104566 and analytical batch 880-104999 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

**HPLC/IC**

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104631 and analytical batch 880-104783 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.

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Case Narrative

Client: Carmona Resources  
Project: Benson Shugart Waterflood #23

Job ID: 880-55262-1

Job ID: 880-55262-1 (Continued) Eurofins Midland

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Eurofins Midland



## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-1

Lab Sample ID: 880-55262-1

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		03/06/25 11:49	03/09/25 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/06/25 11:49	03/09/25 04:36	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/06/25 11:49	03/09/25 04:36	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/09/25 04:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/06/25 21:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 21:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 21:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	03/06/25 09:17	03/06/25 21:44	1
o-Terphenyl	86		70 - 130	03/06/25 09:17	03/06/25 21:44	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7		9.92		mg/Kg			03/09/25 11:40	1

Client Sample ID: S-1

Lab Sample ID: 880-55262-2

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

## 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		03/06/25 11:49	03/09/25 04:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:49	03/09/25 04:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:49	03/09/25 04:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 11:49	03/09/25 04:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:49	03/09/25 04:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 11:49	03/09/25 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/06/25 11:49	03/09/25 04:56	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-1

Lab Sample ID: 880-55262-2

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	03/06/25 11:49	03/09/25 04:56	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/09/25 04:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/25 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:17	03/06/25 22:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:17	03/06/25 22:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:17	03/06/25 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/06/25 09:17	03/06/25 22:00	1
o-Terphenyl	97		70 - 130				03/06/25 09:17	03/06/25 22:00	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	451		10.1		mg/Kg			03/09/25 11:47	1

Client Sample ID: S-1

Lab Sample ID: 880-55262-3

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 2'

## 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		03/06/25 11:49	03/09/25 05:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:49	03/09/25 05:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:49	03/09/25 05:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 11:49	03/09/25 05:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:49	03/09/25 05:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 11:49	03/09/25 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	03/06/25 11:49	03/09/25 05:16	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/06/25 11:49	03/09/25 05:16	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/09/25 05:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	197		49.9		mg/Kg			03/06/25 22:16	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-1

Lab Sample ID: 880-55262-3

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:17	03/06/25 22:16	1
Diesel Range Organics (Over C10-C28)	197		49.9		mg/Kg		03/06/25 09:17	03/06/25 22:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:17	03/06/25 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/06/25 09:17	03/06/25 22:16	1
o-Terphenyl	93		70 - 130				03/06/25 09:17	03/06/25 22:16	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	560		9.98		mg/Kg			03/09/25 12:05	1

## Client Sample ID: S-1

Lab Sample ID: 880-55262-4

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				03/06/25 11:49	03/09/25 05:37	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/06/25 11:49	03/09/25 05:37	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/25 05:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/25 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 22:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 22:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/06/25 09:17	03/06/25 22:33	1
o-Terphenyl	91		70 - 130				03/06/25 09:17	03/06/25 22:33	1

Eurofins Midland



## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-1

Lab Sample ID: 880-55262-4

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	488		9.90		mg/Kg			03/09/25 12:11	1

## Client Sample ID: S-1

Lab Sample ID: 880-55262-5

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				03/06/25 11:49	03/09/25 05:57	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/06/25 11:49	03/09/25 05:57	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/09/25 05:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	399		49.8		mg/Kg			03/06/25 22:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 22:49	1
Diesel Range Organics (Over C10-C28)	399		49.8		mg/Kg		03/06/25 09:17	03/06/25 22:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/06/25 09:17	03/06/25 22:49	1
o-Terphenyl	96		70 - 130				03/06/25 09:17	03/06/25 22:49	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		10.0		mg/Kg			03/09/25 12:17	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-1

Lab Sample ID: 880-55262-6

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/06/25 11:49	03/09/25 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/06/25 11:49	03/09/25 06:18	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/06/25 11:49	03/09/25 06:18	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/09/25 06:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/06/25 23:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 09:17	03/06/25 23:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 09:17	03/06/25 23:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 09:17	03/06/25 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/06/25 09:17	03/06/25 23:04	1
o-Terphenyl	90		70 - 130	03/06/25 09:17	03/06/25 23:04	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1860		50.4		mg/Kg			03/09/25 12:23	5

Client Sample ID: S-1

Lab Sample ID: 880-55262-7

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
Toluene	0.00708		0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
m-Xylene & p-Xylene	0.00788		0.00399		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
o-Xylene	0.00300		0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
Xylenes, Total	0.0109		0.00399		mg/Kg		03/06/25 11:49	03/09/25 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	03/06/25 11:49	03/09/25 06:38	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-1

Lab Sample ID: 880-55262-7

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 6'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	03/06/25 11:49	03/09/25 06:38	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0180		0.00399		mg/Kg			03/09/25 06:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/25 23:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 23:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 23:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/06/25 09:17	03/06/25 23:21	1
o-Terphenyl	94		70 - 130				03/06/25 09:17	03/06/25 23:21	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9		49.9		mg/Kg			03/09/25 12:29	5

Client Sample ID: S-1

Lab Sample ID: 880-55262-8

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
Toluene	0.00600		0.00198		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
m-Xylene & p-Xylene	0.00740		0.00396		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
Xylenes, Total	0.00740		0.00396		mg/Kg		03/06/25 11:49	03/09/25 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	03/06/25 11:49	03/09/25 06:59	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/06/25 11:49	03/09/25 06:59	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0134		0.00396		mg/Kg			03/09/25 06:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/06/25 23:37	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-1

Lab Sample ID: 880-55262-8

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 23:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 23:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				03/06/25 09:17	03/06/25 23:37	1
o-Terphenyl	97		70 - 130				03/06/25 09:17	03/06/25 23:37	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.3		9.94		mg/Kg			03/10/25 12:35	1

## Client Sample ID: S-2

Lab Sample ID: 880-55262-19

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				03/06/25 11:49	03/09/25 07:19	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/06/25 11:49	03/09/25 07:19	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			03/09/25 07:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/11/25 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				03/06/25 09:20	03/11/25 17:14	1
o-Terphenyl	79		70 - 130				03/06/25 09:20	03/11/25 17:14	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-2

Lab Sample ID: 880-55262-19

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.6		9.90		mg/Kg			03/09/25 12:54	1

## Client Sample ID: S-2

Lab Sample ID: 880-55262-20

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/06/25 11:49	03/09/25 07:39	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/06/25 11:49	03/09/25 07:39	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/09/25 07:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/11/25 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 17:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 17:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				03/06/25 09:20	03/11/25 17:29	1
o-Terphenyl	82		70 - 130				03/06/25 09:20	03/11/25 17:29	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.0		10.0		mg/Kg			03/09/25 13:00	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-2

Lab Sample ID: 880-55262-21

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	03/06/25 11:54	03/09/25 00:37	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/06/25 11:54	03/09/25 00:37	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/09/25 00:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/11/25 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	03/06/25 09:20	03/11/25 17:44	1
o-Terphenyl	88		70 - 130	03/06/25 09:20	03/11/25 17:44	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.1		9.98		mg/Kg			03/09/25 13:18	1

Client Sample ID: S-2

Lab Sample ID: 880-55262-22

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 3'

## 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		03/06/25 11:54	03/09/25 00:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 00:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 00:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 11:54	03/09/25 00:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 00:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 11:54	03/09/25 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/06/25 11:54	03/09/25 00:58	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-2

Lab Sample ID: 880-55262-22

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	03/06/25 11:54	03/09/25 00:58	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/09/25 00:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/11/25 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8		mg/Kg		03/06/25 09:20	03/11/25 16:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 16:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/06/25 09:20	03/11/25 16:29	1
o-Terphenyl	86		70 - 130				03/06/25 09:20	03/11/25 16:29	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.9		10.0		mg/Kg			03/09/25 13:24	1

Client Sample ID: S-2

Lab Sample ID: 880-55262-23

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 4'

## 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		03/06/25 11:54	03/09/25 01:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 01:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 01:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 11:54	03/09/25 01:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 01:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 11:54	03/09/25 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/06/25 11:54	03/09/25 01:18	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/06/25 11:54	03/09/25 01:18	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/09/25 01:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/11/25 17:59	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-2

## Lab Sample ID: 880-55262-23

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				03/06/25 09:20	03/11/25 17:59	1
o-Terphenyl	83		70 - 130				03/06/25 09:20	03/11/25 17:59	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.9		9.90		mg/Kg			03/09/25 14:43	1

## Client Sample ID: S-2

## Lab Sample ID: 880-55262-24

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				03/06/25 11:54	03/09/25 01:39	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/06/25 11:54	03/09/25 01:39	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/25 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/11/25 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 18:14	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 18:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/06/25 09:20	03/11/25 18:14	1
o-Terphenyl	91		70 - 130				03/06/25 09:20	03/11/25 18:14	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-2

Lab Sample ID: 880-55262-24

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 5'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.2		9.94		mg/Kg			03/09/25 14:49	1

## Client Sample ID: S-3

Lab Sample ID: 880-55262-25

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				03/06/25 11:54	03/09/25 01:59	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/06/25 11:54	03/09/25 01:59	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/09/25 01:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/11/25 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 18:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 18:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/06/25 09:20	03/11/25 18:29	1
o-Terphenyl	84		70 - 130				03/06/25 09:20	03/11/25 18:29	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			03/09/25 14:56	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-3

## Lab Sample ID: 880-55262-26

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/06/25 11:54	03/09/25 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/06/25 11:54	03/09/25 03:20	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/06/25 11:54	03/09/25 03:20	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/09/25 03:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/11/25 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 18:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 18:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	03/06/25 09:20	03/11/25 18:45	1
o-Terphenyl	91		70 - 130	03/06/25 09:20	03/11/25 18:45	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			03/09/25 15:02	1

## Client Sample ID: S-3

## Lab Sample ID: 880-55262-27

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	03/06/25 11:54	03/09/25 03:40	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-3

Lab Sample ID: 880-55262-27

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	03/06/25 11:54	03/09/25 03:40	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/09/25 03:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/11/25 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				03/06/25 09:20	03/11/25 19:00	1
o-Terphenyl	81		70 - 130				03/06/25 09:20	03/11/25 19:00	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			03/09/25 15:08	1

Client Sample ID: S-3

Lab Sample ID: 880-55262-28

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/06/25 11:54	03/09/25 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	03/06/25 11:54	03/09/25 04:00	1
1,4-Difluorobenzene (Surr)	110		70 - 130	03/06/25 11:54	03/09/25 04:00	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/09/25 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/11/25 19:15	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-3

## Lab Sample ID: 880-55262-28

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 19:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 19:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				03/06/25 09:20	03/11/25 19:15	1
o-Terphenyl	74		70 - 130				03/06/25 09:20	03/11/25 19:15	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.1	F1	9.92		mg/Kg			03/09/25 15:56	1

## Client Sample ID: S-3

## Lab Sample ID: 880-55262-29

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				03/06/25 11:54	03/09/25 04:21	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/06/25 11:54	03/09/25 04:21	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/25 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/11/25 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 19:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 19:45	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				03/06/25 09:20	03/11/25 19:45	1
o-Terphenyl	92		70 - 130				03/06/25 09:20	03/11/25 19:45	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-3

Lab Sample ID: 880-55262-29

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 4'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.5		10.0		mg/Kg			03/09/25 16:15	1

## Client Sample ID: S-3

Lab Sample ID: 880-55262-30

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:42	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/06/25 11:54	03/09/25 04:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:42	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/25 11:54	03/09/25 04:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				03/06/25 11:54	03/09/25 04:42	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/06/25 11:54	03/09/25 04:42	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/09/25 04:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/11/25 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 19:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				03/06/25 09:20	03/11/25 19:59	1
o-Terphenyl	85		70 - 130				03/06/25 09:20	03/11/25 19:59	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.7		9.96		mg/Kg			03/09/25 16:21	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-4

Lab Sample ID: 880-55262-31

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 06:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 06:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 06:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 06:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 06:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/06/25 11:54	03/09/25 06:31	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/06/25 11:54	03/09/25 06:31	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/09/25 06:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/11/25 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 20:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 20:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	03/06/25 09:20	03/11/25 20:14	1
o-Terphenyl	75		70 - 130	03/06/25 09:20	03/11/25 20:14	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			03/09/25 16:27	1

Client Sample ID: S-4

Lab Sample ID: 880-55262-32

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/06/25 11:54	03/09/25 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/06/25 11:54	03/09/25 06:52	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-4

Lab Sample ID: 880-55262-32

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	03/06/25 11:54	03/09/25 06:52	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/09/25 06:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/11/25 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 20:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 20:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				03/06/25 09:20	03/11/25 20:30	1
o-Terphenyl	76		70 - 130				03/06/25 09:20	03/11/25 20:30	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.6		10.0		mg/Kg			03/09/25 16:33	1

Client Sample ID: S-4

Lab Sample ID: 880-55262-33

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 07:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 07:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 07:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 07:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 07:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 07:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	03/06/25 11:54	03/09/25 07:12	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/06/25 11:54	03/09/25 07:12	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/25 07:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/11/25 20:44	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-4

## Lab Sample ID: 880-55262-33

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 20:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 20:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				03/06/25 09:20	03/11/25 20:44	1
o-Terphenyl	89		70 - 130				03/06/25 09:20	03/11/25 20:44	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.7		10.1		mg/Kg			03/09/25 16:52	1

## Client Sample ID: S-4

## Lab Sample ID: 880-55262-34

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				03/06/25 11:54	03/09/25 07:33	1
1,4-Difluorobenzene (Surr)	112		70 - 130				03/06/25 11:54	03/09/25 07:33	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/09/25 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/11/25 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 21:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 21:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				03/06/25 09:20	03/11/25 21:00	1
o-Terphenyl	78		70 - 130				03/06/25 09:20	03/11/25 21:00	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-4

Lab Sample ID: 880-55262-34

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.1		9.94		mg/Kg			03/09/25 16:58	1

## Client Sample ID: S-4

Lab Sample ID: 880-55262-35

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				03/06/25 11:54	03/09/25 07:53	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/06/25 11:54	03/09/25 07:53	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			03/09/25 07:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/11/25 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 21:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 21:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				03/06/25 09:20	03/11/25 21:15	1
o-Terphenyl	80		70 - 130				03/06/25 09:20	03/11/25 21:15	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.3		9.98		mg/Kg			03/09/25 17:04	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-4

Lab Sample ID: 880-55262-36

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 08:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/06/25 11:54	03/09/25 08:14	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/06/25 11:54	03/09/25 08:14	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/25 08:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/11/25 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 21:31	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 21:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	03/06/25 09:20	03/11/25 21:31	1
o-Terphenyl	86		70 - 130	03/06/25 09:20	03/11/25 21:31	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.8		10.0		mg/Kg			03/09/25 17:10	1

## Client Sample ID: S-5

Lab Sample ID: 880-55262-37

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 08:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/06/25 11:54	03/09/25 08:34	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-5

Lab Sample ID: 880-55262-37

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	03/06/25 11:54	03/09/25 08:34	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/25 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/11/25 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 21:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 21:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 21:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				03/06/25 09:20	03/11/25 21:45	1
o-Terphenyl	73		70 - 130				03/06/25 09:20	03/11/25 21:45	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			03/09/25 17:16	1

Client Sample ID: S-5

Lab Sample ID: 880-55262-38

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 08:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 08:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 08:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 08:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 08:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	03/06/25 11:54	03/09/25 08:55	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/06/25 11:54	03/09/25 08:55	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/09/25 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/11/25 22:01	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-5

## Lab Sample ID: 880-55262-38

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 22:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 22:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 22:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				03/06/25 09:20	03/11/25 22:01	1
o-Terphenyl	77		70 - 130				03/06/25 09:20	03/11/25 22:01	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U F1	10.1		mg/Kg			03/09/25 17:22	1

## Client Sample ID: S-5

## Lab Sample ID: 880-55262-39

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				03/06/25 11:54	03/09/25 09:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130				03/06/25 11:54	03/09/25 09:15	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			03/09/25 09:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/25 04:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 04:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 04:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				03/06/25 09:31	03/08/25 04:31	1
o-Terphenyl	66	S1-	70 - 130				03/06/25 09:31	03/08/25 04:31	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-5

Lab Sample ID: 880-55262-39

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 2'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.3		10.1		mg/Kg			03/09/25 17:40	1

## Client Sample ID: S-5

Lab Sample ID: 880-55262-40

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				03/06/25 11:54	03/09/25 09:35	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/06/25 11:54	03/09/25 09:35	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/09/25 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/08/25 05:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 05:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 05:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 05:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				03/06/25 09:31	03/08/25 05:16	1
o-Terphenyl	73		70 - 130				03/06/25 09:31	03/08/25 05:16	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		9.96		mg/Kg			03/09/25 17:47	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-5

Lab Sample ID: 880-55262-41

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 16:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 16:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 16:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 16:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 16:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/06/25 11:48	03/06/25 16:41	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/06/25 11:48	03/06/25 16:41	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/08/25 05:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 09:31	03/08/25 05:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 09:31	03/08/25 05:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 09:31	03/08/25 05:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	03/06/25 09:31	03/08/25 05:33	1
o-Terphenyl	67	S1-	70 - 130	03/06/25 09:31	03/08/25 05:33	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		9.94		mg/Kg			03/09/25 18:05	1

Client Sample ID: S-5

Lab Sample ID: 880-55262-42

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/06/25 11:48	03/06/25 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/06/25 11:48	03/06/25 17:01	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-5

Lab Sample ID: 880-55262-42

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	03/06/25 11:48	03/06/25 17:01	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/06/25 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/08/25 05:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 05:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 05:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 05:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/06/25 09:31	03/08/25 05:47	1
o-Terphenyl	73		70 - 130				03/06/25 09:31	03/08/25 05:47	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		9.92		mg/Kg			03/09/25 18:11	1

## Client Sample ID: S-6

Lab Sample ID: 880-55262-43

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/06/25 11:48	03/06/25 17:22	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/06/25 11:48	03/06/25 17:22	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/25 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/25 06:02	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-6

## Lab Sample ID: 880-55262-43

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 06:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 06:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 06:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				03/06/25 09:31	03/08/25 06:02	1
o-Terphenyl	72		70 - 130				03/06/25 09:31	03/08/25 06:02	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			03/09/25 18:17	1

## Client Sample ID: S-6

## Lab Sample ID: 880-55262-44

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/06/25 11:48	03/06/25 17:42	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/06/25 11:48	03/06/25 17:42	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/25 06:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 06:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 06:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 06:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				03/06/25 09:31	03/08/25 06:17	1
o-Terphenyl	82		70 - 130				03/06/25 09:31	03/08/25 06:17	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-6

Lab Sample ID: 880-55262-44

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.4		9.98		mg/Kg			03/09/25 18:23	1

## Client Sample ID: S-6

Lab Sample ID: 880-55262-45

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 18:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 18:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 18:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 11:48	03/06/25 18:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 18:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 11:48	03/06/25 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/06/25 11:48	03/06/25 18:03	1
1,4-Difluorobenzene (Surr)	87		70 - 130				03/06/25 11:48	03/06/25 18:03	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			03/06/25 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/25 06:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 06:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 06:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 06:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/06/25 09:31	03/08/25 06:33	1
o-Terphenyl	81		70 - 130				03/06/25 09:31	03/08/25 06:33	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		10.0		mg/Kg			03/09/25 18:29	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-6

Lab Sample ID: 880-55262-46

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/06/25 11:48	03/06/25 18:23	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/06/25 11:48	03/06/25 18:23	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/25 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/10/25 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/10/25 17:18	03/10/25 15:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/10/25 17:18	03/10/25 15:55	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/10/25 17:18	03/10/25 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130	03/10/25 17:18	03/10/25 15:55	1
o-Terphenyl	142	S1+	70 - 130	03/10/25 17:18	03/10/25 15:55	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	605		10.1		mg/Kg			03/09/25 18:35	1

Client Sample ID: S-6

Lab Sample ID: 880-55262-47

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/06/25 11:48	03/06/25 18:44	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-6

Lab Sample ID: 880-55262-47

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	03/06/25 11:48	03/06/25 18:44	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/25 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/25 07:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 07:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 07:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				03/06/25 09:31	03/08/25 07:02	1
o-Terphenyl	79		70 - 130				03/06/25 09:31	03/08/25 07:02	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	737		9.94		mg/Kg			03/09/25 18:41	1

Client Sample ID: S-6

Lab Sample ID: 880-55262-48

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/06/25 11:48	03/06/25 19:05	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/06/25 11:48	03/06/25 19:05	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/08/25 07:17	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-6

Lab Sample ID: 880-55262-48

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 07:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 07:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 07:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				03/06/25 09:31	03/08/25 07:17	1
o-Terphenyl	77		70 - 130				03/06/25 09:31	03/08/25 07:17	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	532		10.0		mg/Kg			03/10/25 16:09	1

Client Sample ID: S-6

Lab Sample ID: 880-55262-49

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/06/25 11:48	03/06/25 19:25	1
1,4-Difluorobenzene (Surr)	86		70 - 130				03/06/25 11:48	03/06/25 19:25	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			03/06/25 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/08/25 07:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 09:31	03/08/25 07:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 09:31	03/08/25 07:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 09:31	03/08/25 07:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				03/06/25 09:31	03/08/25 07:47	1
o-Terphenyl	93		70 - 130				03/06/25 09:31	03/08/25 07:47	1

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Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-6  
Date Collected: 03/04/25 00:00  
Date Received: 03/05/25 16:08  
Sample Depth: 6'

Lab Sample ID: 880-55262-49  
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	409		9.96		mg/Kg			03/10/25 16:27	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Surrogate Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-55262-1	S-1	119	95
880-55262-1 MS	S-1	120	94
880-55262-1 MSD	S-1	115	95
880-55262-2	S-1	116	88
880-55262-3	S-1	118	86
880-55262-4	S-1	116	92
880-55262-5	S-1	119	96
880-55262-6	S-1	116	89
880-55262-7	S-1	123	91
880-55262-8	S-1	131 S1+	85
880-55262-19	S-2	120	88
880-55262-20	S-2	110	90
880-55262-21	S-2	93	102
880-55262-21 MS	S-2	118	99
880-55262-21 MSD	S-2	106	105
880-55262-22	S-2	110	106
880-55262-23	S-2	114	97
880-55262-24	S-2	122	101
880-55262-25	S-3	128	103
880-55262-26	S-3	117	105
880-55262-27	S-3	123	106
880-55262-28	S-3	137 S1+	110
880-55262-29	S-3	132 S1+	109
880-55262-30	S-3	127	106
880-55262-31	S-4	104	108
880-55262-32	S-4	117	111
880-55262-33	S-4	122	102
880-55262-34	S-4	128	112
880-55262-35	S-4	126	109
880-55262-36	S-4	113	107
880-55262-37	S-5	117	105
880-55262-38	S-5	128	101
880-55262-39	S-5	125	104
880-55262-40	S-5	136 S1+	105
880-55262-41	S-5	99	86
880-55262-42	S-5	103	90
880-55262-43	S-6	100	88
880-55262-44	S-6	100	89
880-55262-45	S-6	101	87
880-55262-46	S-6	105	85
880-55262-47	S-6	100	89
880-55262-48	S-6	103	91
880-55262-49	S-6	99	86
890-7773-A-1-B MS	Matrix Spike	109	89
890-7773-A-1-C MSD	Matrix Spike Duplicate	101	91
LCS 880-104555/1-A	Lab Control Sample	98	91
LCS 880-104609/1-A	Lab Control Sample	118	94
LCS 880-104611/1-A	Lab Control Sample	98	95
LCSD 880-104555/2-A	Lab Control Sample Dup	98	93

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## Surrogate Summary

Client: Carmona Resources

Job ID: 880-55262-1

Project/Site: Benson Shugart Waterflood #23

SDG: Eddy Co NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCSD 880-104609/2-A	Lab Control Sample Dup	120	95
LCSD 880-104611/2-A	Lab Control Sample Dup	107	95
MB 880-104474/5-A	Method Blank	209 S1+	123
MB 880-104479/5-A	Method Blank	107	93
MB 880-104555/5-A	Method Blank	100	83
MB 880-104609/5-A	Method Blank	112	86
MB 880-104611/5-A	Method Blank	227 S1+	125
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-55262-1	S-1	95	86
880-55262-2	S-1	106	97
880-55262-3	S-1	99	93
880-55262-4	S-1	99	91
880-55262-5	S-1	98	96
880-55262-6	S-1	96	90
880-55262-7	S-1	105	94
880-55262-8	S-1	112	97
880-55262-19	S-2	76	79
880-55262-20	S-2	78	82
880-55262-21	S-2	83	88
880-55262-22	S-2	82	86
880-55262-22 MS	S-2	89	85
880-55262-22 MSD	S-2	88	84
880-55262-23	S-2	80	83
880-55262-24	S-2	87	91
880-55262-25	S-3	82	84
880-55262-26	S-3	89	91
880-55262-27	S-3	78	81
880-55262-28	S-3	73	74
880-55262-29	S-3	90	92
880-55262-30	S-3	81	85
880-55262-31	S-4	74	75
880-55262-32	S-4	71	76
880-55262-33	S-4	85	89
880-55262-34	S-4	73	78
880-55262-35	S-4	78	80
880-55262-36	S-4	83	86
880-55262-37	S-5	72	73
880-55262-38	S-5	76	77
880-55262-39	S-5	72	66 S1-
880-55262-39 MS	S-5	81	74
880-55262-39 MSD	S-5	82	75

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## Surrogate Summary

Client: Carmona Resources

Job ID: 880-55262-1

Project/Site: Benson Shugart Waterflood #23

SDG: Eddy Co NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-55262-40	S-5	83	73
880-55262-41	S-5	75	67 S1-
880-55262-42	S-5	82	73
880-55262-43	S-6	80	72
880-55262-44	S-6	90	82
880-55262-45	S-6	87	81
880-55262-46	S-6	149 S1+	142 S1+
880-55262-47	S-6	88	79
880-55262-48	S-6	86	77
880-55262-49	S-6	102	93
890-7770-A-3-D MS	Matrix Spike	95	89
890-7770-A-3-E MSD	Matrix Spike Duplicate	109	89
890-7787-A-1-H MS	Matrix Spike	88	77
890-7787-A-1-I MSD	Matrix Spike Duplicate	88	77
LCS 880-104565/2-A	Lab Control Sample	108	105
LCS 880-104566/2-A	Lab Control Sample	106	106
LCS 880-104567/2-A	Lab Control Sample	113	100
LCS 880-104814/2-A	Lab Control Sample	109	97
LCSD 880-104565/3-A	Lab Control Sample Dup	120	122
LCSD 880-104566/3-A	Lab Control Sample Dup	105	104
LCSD 880-104567/3-A	Lab Control Sample Dup	112	100
LCSD 880-104814/3-A	Lab Control Sample Dup	109	95
MB 880-104565/1-A	Method Blank	107	101
MB 880-104566/1-A	Method Blank	71	75
MB 880-104567/1-A	Method Blank	98	88
MB 880-104814/1-A	Method Blank	106	95

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl



## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Lab Sample ID: MB 880-104474/5-A

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:22	03/08/25 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:22	03/08/25 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:22	03/08/25 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 14:22	03/08/25 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:22	03/08/25 12:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 14:22	03/08/25 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	209	S1+	70 - 130	03/05/25 14:22	03/08/25 12:32	1
1,4-Difluorobenzene (Surr)	123		70 - 130	03/05/25 14:22	03/08/25 12:32	1

Lab Sample ID: MB 880-104479/5-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 14:32	03/08/25 16:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/05/25 14:32	03/08/25 16:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/05/25 14:32	03/08/25 16:17	1

Lab Sample ID: MB 880-104555/5-A

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 18:00	03/06/25 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/05/25 18:00	03/06/25 11:40	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/05/25 18:00	03/06/25 11:40	1

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104555/1-A

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08388		mg/Kg		84	70 - 130
Toluene	0.100	0.07655		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.07803		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1596		mg/Kg		80	70 - 130
o-Xylene	0.100	0.08477		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-104555/2-A

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104555

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09037		mg/Kg		90	70 - 130	7	35
Toluene	0.100	0.08163		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.100	0.08451		mg/Kg		85	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1718		mg/Kg		86	70 - 130	7	35
o-Xylene	0.100	0.08976		mg/Kg		90	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-7773-A-1-B MS

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104555

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.100	0.03992	F1	mg/Kg		40	70 - 130
Toluene	<0.00200	U F1	0.100	0.04061	F1	mg/Kg		41	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.04500	F1	mg/Kg		45	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.09331	F1	mg/Kg		47	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.05085	F1	mg/Kg		51	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-7773-A-1-C MSD

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.05621	F1	mg/Kg		56	70 - 130	34	35
Toluene	<0.00200	U F1	0.100	0.05391	F1	mg/Kg		54	70 - 130	28	35
Ethylbenzene	<0.00200	U F1	0.100	0.05819	F1	mg/Kg		58	70 - 130	26	35

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Lab Sample ID: 890-7773-A-1-C MSD

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1192	F1	mg/Kg		60	70 - 130	24	35
o-Xylene	<0.00200	U F1	0.100	0.06269	F1	mg/Kg		63	70 - 130	21	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	91		70 - 130								

Lab Sample ID: MB 880-104609/5-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				03/06/25 11:49	03/09/25 04:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130				03/06/25 11:49	03/09/25 04:14	1

Lab Sample ID: LCS 880-104609/1-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07110		mg/Kg		71	70 - 130
Toluene	0.100	0.07076		mg/Kg		71	70 - 130
Ethylbenzene	0.100	0.07589		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	0.200	0.1486		mg/Kg		74	70 - 130
o-Xylene	0.100	0.07596		mg/Kg		76	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	118		70 - 130				
1,4-Difluorobenzene (Surr)	94		70 - 130				

Lab Sample ID: LCSD 880-104609/2-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104609

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07783		mg/Kg		78	70 - 130	9	35
Toluene	0.100	0.07389		mg/Kg		74	70 - 130	4	35
Ethylbenzene	0.100	0.07172		mg/Kg		72	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1559		mg/Kg		78	70 - 130	5	35
o-Xylene	0.100	0.07902		mg/Kg		79	70 - 130	4	35

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-55262-1 MS

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 104609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08117		mg/Kg		81	70 - 130
Toluene	<0.00200	U F1	0.100	0.05858	F1	mg/Kg		59	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.06055	F1	mg/Kg		61	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1178	F1	mg/Kg		59	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.06794	F1	mg/Kg		68	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-55262-1 MSD

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 104609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08318		mg/Kg		83	70 - 130	2	35
Toluene	<0.00200	U F1	0.100	0.06349	F1	mg/Kg		63	70 - 130	8	35
Ethylbenzene	<0.00200	U F1	0.100	0.06248	F1	mg/Kg		62	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1215	F1	mg/Kg		61	70 - 130	3	35
o-Xylene	<0.00200	U F1	0.100	0.06740	F1	mg/Kg		67	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-104611/5-A

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 11:54	03/09/25 00:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 11:54	03/09/25 00:09	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	227	S1+	70 - 130	03/06/25 11:54	03/09/25 00:09	1			
1,4-Difluorobenzene (Surr)	125		70 - 130	03/06/25 11:54	03/09/25 00:09	1			

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104611/1-A

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08835		mg/Kg		88	70 - 130
Toluene	0.100	0.09760		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09090		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1607		mg/Kg		80	70 - 130
o-Xylene	0.100	0.08440		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-104611/2-A

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104611

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09062		mg/Kg		91	70 - 130	3	35
Toluene	0.100	0.09926		mg/Kg		99	70 - 130	2	35
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1944		mg/Kg		97	70 - 130	19	35
o-Xylene	0.100	0.08977		mg/Kg		90	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-55262-21 MS

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 104611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1044		mg/Kg		104	70 - 130
Toluene	<0.00200	U	0.100	0.09813		mg/Kg		98	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09513		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1956		mg/Kg		98	70 - 130
o-Xylene	<0.00200	U	0.100	0.09363		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-55262-21 MSD

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 104611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1070		mg/Kg		107	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.09565		mg/Kg		96	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09317		mg/Kg		93	70 - 130	2	35

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Lab Sample ID: 880-55262-21 MSD

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 104611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1733		mg/Kg		87	70 - 130	12	35
o-Xylene	<0.00200	U	0.100	0.09075		mg/Kg		91	70 - 130	3	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

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

Lab Sample ID: MB 880-104565/1-A

Matrix: Solid

Analysis Batch: 104614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:16	03/06/25 04:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:16	03/06/25 04:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:16	03/06/25 04:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/06/25 09:16	03/06/25 04:24	1
o-Terphenyl	101		70 - 130				03/06/25 09:16	03/06/25 04:24	1

Lab Sample ID: LCS 880-104565/2-A

Matrix: Solid

Analysis Batch: 104614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	917.5		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	955.7		mg/Kg		96	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: LCSD 880-104565/3-A

Matrix: Solid

Analysis Batch: 104614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104565

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1044		mg/Kg		104	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	1091		mg/Kg		109	70 - 130	13	20

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Lab Sample ID: LCSD 880-104565/3-A

Matrix: Solid

Analysis Batch: 104614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104565

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: 890-7770-A-3-D MS

Matrix: Solid

Analysis Batch: 104614

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104565

	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	992	791.5		mg/Kg		80	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	992	751.6		mg/Kg		76	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	95		70 - 130							
o-Terphenyl	89		70 - 130							

Lab Sample ID: 890-7770-A-3-E MSD

Matrix: Solid

Analysis Batch: 104614

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104565

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	992	873.1		mg/Kg		88	70 - 130	10	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	992	787.6		mg/Kg		79	70 - 130	5	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	109		70 - 130									
o-Terphenyl	89		70 - 130									

Lab Sample ID: MB 880-104566/1-A

Matrix: Solid

Analysis Batch: 104999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104566

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:16	03/11/25 15:28	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:16	03/11/25 15:28	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:16	03/11/25 15:28	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
1-Chlorooctane	71		70 - 130				03/06/25 09:16	03/11/25 15:28	1		
o-Terphenyl	75		70 - 130				03/06/25 09:16	03/11/25 15:28	1		

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104566/2-A

Matrix: Solid

Analysis Batch: 104999

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104566

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	962.1		mg/Kg		96		70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1040		mg/Kg		104		70 - 130	

Lab Sample ID: LCSD 880-104566/3-A

Matrix: Solid

Analysis Batch: 104999

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104566

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	936.4		mg/Kg		94	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1016		mg/Kg		102	70 - 130	2	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	104		70 - 130								

Lab Sample ID: 880-55262-22 MS

Matrix: Solid

Analysis Batch: 104999

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 104566

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	994	681.2	F1	mg/Kg		69	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	994	774.4		mg/Kg		78	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	85		70 - 130								

Lab Sample ID: 880-55262-22 MSD

Matrix: Solid

Analysis Batch: 104999

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 104566

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	994	680.4	F1	mg/Kg		68	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	994	765.7		mg/Kg		77	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	88		70 - 130								

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Lab Sample ID: 880-55262-22 MSD

Matrix: Solid

Analysis Batch: 104999

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 104566

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	84		70 - 130

Lab Sample ID: MB 880-104567/1-A

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104567

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/08/25 03:45	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/08/25 03:45	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/08/25 03:45	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	98		70 - 130				03/06/25 09:17	03/08/25 03:45	1	
<i>o</i> -Terphenyl	88		70 - 130				03/06/25 09:17	03/08/25 03:45	1	

Lab Sample ID: LCS 880-104567/2-A

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104567

		Spike	LCS	LCS				%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	1108		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	1057		mg/Kg		106	70 - 130		
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	113		70 - 130							
<i>o</i> -Terphenyl	100		70 - 130							

Lab Sample ID: LCSD 880-104567/3-A

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104567

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	994.2		mg/Kg		99	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1050		mg/Kg		105	70 - 130	1	20

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Lab Sample ID: 880-55262-39 MS

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: S-5

Prep Type: Total/NA

Prep Batch: 104567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	785.6		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	827.8		mg/Kg		83	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	81		70 - 130						
o-Terphenyl	74		70 - 130						

Lab Sample ID: 880-55262-39 MSD

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: S-5

Prep Type: Total/NA

Prep Batch: 104567

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	852.4		mg/Kg		85	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	854.5		mg/Kg		86	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	75		70 - 130								

Lab Sample ID: MB 880-104814/1-A

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/09/25 20:40	03/10/25 09:39	1
o-Terphenyl	95		70 - 130				03/09/25 20:40	03/10/25 09:39	1

Lab Sample ID: LCS 880-104814/2-A

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	964.7		mg/Kg		96	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104814/2-A

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104814

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-104814/3-A

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104814

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1010		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	951.8		mg/Kg		95	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-7787-A-1-H MS

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	833.6		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	772.6		mg/Kg		78	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 890-7787-A-1-I MSD

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	806.3		mg/Kg		81	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	773.4		mg/Kg		78	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	77		70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104630/1-A

Matrix: Solid

Analysis Batch: 104782

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/09/25 10:52	1

Lab Sample ID: LCS 880-104630/2-A

Matrix: Solid

Analysis Batch: 104782

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.3		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-104630/3-A

Matrix: Solid

Analysis Batch: 104782

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.3		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-55262-8 MS

Matrix: Solid

Analysis Batch: 104782

Client Sample ID: S-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.3		249	283.9		mg/Kg		108	90 - 110

Lab Sample ID: 880-55262-8 MSD

Matrix: Solid

Analysis Batch: 104782

Client Sample ID: S-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15.3		249	284.8		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-104631/1-A

Matrix: Solid

Analysis Batch: 104783

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/09/25 15:38	1

Lab Sample ID: LCS 880-104631/2-A

Matrix: Solid

Analysis Batch: 104783

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.6		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-104631/3-A

Matrix: Solid

Analysis Batch: 104783

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	268.1		mg/Kg		107	90 - 110	1	20

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-55262-28 MS

Matrix: Solid

Analysis Batch: 104783

Client Sample ID: S-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	91.1	F1	248	377.3	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 880-55262-28 MSD

Matrix: Solid

Analysis Batch: 104783

Client Sample ID: S-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	91.1	F1	248	378.5	F1	mg/Kg		116	90 - 110	0	20

Lab Sample ID: 880-55262-38 MS

Matrix: Solid

Analysis Batch: 104783

Client Sample ID: S-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<10.1	U F1	253	298.1	F1	mg/Kg		116	90 - 110		

Lab Sample ID: 880-55262-38 MSD

Matrix: Solid

Analysis Batch: 104783

Client Sample ID: S-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.1	U F1	253	299.4	F1	mg/Kg		116	90 - 110	0	20

Lab Sample ID: MB 880-104632/1-A

Matrix: Solid

Analysis Batch: 104844

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/10/25 15:51	1

Lab Sample ID: LCS 880-104632/2-A

Matrix: Solid

Analysis Batch: 104844

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	264.9		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-104632/3-A

Matrix: Solid

Analysis Batch: 104844

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	266.6		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 880-55262-48 MS

Matrix: Solid

Analysis Batch: 104844

Client Sample ID: S-6

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	532		250	802.6		mg/Kg		108	90 - 110		

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QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-55262-48 MSD							Client Sample ID: S-6					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 104844												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	532		250	804.7		mg/Kg		109	90 - 110	0	20	

## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## GC VOA

## Prep Batch: 104474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104474/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 104479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104479/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 104555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-41	S-5	Total/NA	Solid	5035	
880-55262-42	S-5	Total/NA	Solid	5035	
880-55262-43	S-6	Total/NA	Solid	5035	
880-55262-44	S-6	Total/NA	Solid	5035	
880-55262-45	S-6	Total/NA	Solid	5035	
880-55262-46	S-6	Total/NA	Solid	5035	
880-55262-47	S-6	Total/NA	Solid	5035	
880-55262-48	S-6	Total/NA	Solid	5035	
880-55262-49	S-6	Total/NA	Solid	5035	
MB 880-104555/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104555/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104555/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7773-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7773-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 104558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-41	S-5	Total/NA	Solid	8021B	104555
880-55262-42	S-5	Total/NA	Solid	8021B	104555
880-55262-43	S-6	Total/NA	Solid	8021B	104555
880-55262-44	S-6	Total/NA	Solid	8021B	104555
880-55262-45	S-6	Total/NA	Solid	8021B	104555
880-55262-46	S-6	Total/NA	Solid	8021B	104555
880-55262-47	S-6	Total/NA	Solid	8021B	104555
880-55262-48	S-6	Total/NA	Solid	8021B	104555
880-55262-49	S-6	Total/NA	Solid	8021B	104555
MB 880-104555/5-A	Method Blank	Total/NA	Solid	8021B	104555
LCS 880-104555/1-A	Lab Control Sample	Total/NA	Solid	8021B	104555
LCSD 880-104555/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104555
890-7773-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	104555
890-7773-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104555

## Prep Batch: 104609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Total/NA	Solid	5035	
880-55262-2	S-1	Total/NA	Solid	5035	
880-55262-3	S-1	Total/NA	Solid	5035	
880-55262-4	S-1	Total/NA	Solid	5035	
880-55262-5	S-1	Total/NA	Solid	5035	
880-55262-6	S-1	Total/NA	Solid	5035	
880-55262-7	S-1	Total/NA	Solid	5035	
880-55262-8	S-1	Total/NA	Solid	5035	
880-55262-19	S-2	Total/NA	Solid	5035	

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## GC VOA (Continued)

## Prep Batch: 104609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-20	S-2	Total/NA	Solid	5035	
MB 880-104609/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104609/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104609/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55262-1 MS	S-1	Total/NA	Solid	5035	
880-55262-1 MSD	S-1	Total/NA	Solid	5035	

## Prep Batch: 104611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-21	S-2	Total/NA	Solid	5035	
880-55262-22	S-2	Total/NA	Solid	5035	
880-55262-23	S-2	Total/NA	Solid	5035	
880-55262-24	S-2	Total/NA	Solid	5035	
880-55262-25	S-3	Total/NA	Solid	5035	
880-55262-26	S-3	Total/NA	Solid	5035	
880-55262-27	S-3	Total/NA	Solid	5035	
880-55262-28	S-3	Total/NA	Solid	5035	
880-55262-29	S-3	Total/NA	Solid	5035	
880-55262-30	S-3	Total/NA	Solid	5035	
880-55262-31	S-4	Total/NA	Solid	5035	
880-55262-32	S-4	Total/NA	Solid	5035	
880-55262-33	S-4	Total/NA	Solid	5035	
880-55262-34	S-4	Total/NA	Solid	5035	
880-55262-35	S-4	Total/NA	Solid	5035	
880-55262-36	S-4	Total/NA	Solid	5035	
880-55262-37	S-5	Total/NA	Solid	5035	
880-55262-38	S-5	Total/NA	Solid	5035	
880-55262-39	S-5	Total/NA	Solid	5035	
880-55262-40	S-5	Total/NA	Solid	5035	
MB 880-104611/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104611/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104611/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55262-21 MS	S-2	Total/NA	Solid	5035	
880-55262-21 MSD	S-2	Total/NA	Solid	5035	

## Analysis Batch: 104647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-21	S-2	Total/NA	Solid	8021B	104611
880-55262-22	S-2	Total/NA	Solid	8021B	104611
880-55262-23	S-2	Total/NA	Solid	8021B	104611
880-55262-24	S-2	Total/NA	Solid	8021B	104611
880-55262-25	S-3	Total/NA	Solid	8021B	104611
880-55262-26	S-3	Total/NA	Solid	8021B	104611
880-55262-27	S-3	Total/NA	Solid	8021B	104611
880-55262-28	S-3	Total/NA	Solid	8021B	104611
880-55262-29	S-3	Total/NA	Solid	8021B	104611
880-55262-30	S-3	Total/NA	Solid	8021B	104611
880-55262-31	S-4	Total/NA	Solid	8021B	104611
880-55262-32	S-4	Total/NA	Solid	8021B	104611
880-55262-33	S-4	Total/NA	Solid	8021B	104611
880-55262-34	S-4	Total/NA	Solid	8021B	104611

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## GC VOA (Continued)

## Analysis Batch: 104647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-35	S-4	Total/NA	Solid	8021B	104611
880-55262-36	S-4	Total/NA	Solid	8021B	104611
880-55262-37	S-5	Total/NA	Solid	8021B	104611
880-55262-38	S-5	Total/NA	Solid	8021B	104611
880-55262-39	S-5	Total/NA	Solid	8021B	104611
880-55262-40	S-5	Total/NA	Solid	8021B	104611
MB 880-104474/5-A	Method Blank	Total/NA	Solid	8021B	104474
MB 880-104611/5-A	Method Blank	Total/NA	Solid	8021B	104611
LCS 880-104611/1-A	Lab Control Sample	Total/NA	Solid	8021B	104611
LCSD 880-104611/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104611
880-55262-21 MS	S-2	Total/NA	Solid	8021B	104611
880-55262-21 MSD	S-2	Total/NA	Solid	8021B	104611

## Analysis Batch: 104732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Total/NA	Solid	Total BTEX	
880-55262-2	S-1	Total/NA	Solid	Total BTEX	
880-55262-3	S-1	Total/NA	Solid	Total BTEX	
880-55262-4	S-1	Total/NA	Solid	Total BTEX	
880-55262-5	S-1	Total/NA	Solid	Total BTEX	
880-55262-6	S-1	Total/NA	Solid	Total BTEX	
880-55262-7	S-1	Total/NA	Solid	Total BTEX	
880-55262-8	S-1	Total/NA	Solid	Total BTEX	
880-55262-19	S-2	Total/NA	Solid	Total BTEX	
880-55262-20	S-2	Total/NA	Solid	Total BTEX	
880-55262-21	S-2	Total/NA	Solid	Total BTEX	
880-55262-22	S-2	Total/NA	Solid	Total BTEX	
880-55262-23	S-2	Total/NA	Solid	Total BTEX	
880-55262-24	S-2	Total/NA	Solid	Total BTEX	
880-55262-25	S-3	Total/NA	Solid	Total BTEX	
880-55262-26	S-3	Total/NA	Solid	Total BTEX	
880-55262-27	S-3	Total/NA	Solid	Total BTEX	
880-55262-28	S-3	Total/NA	Solid	Total BTEX	
880-55262-29	S-3	Total/NA	Solid	Total BTEX	
880-55262-30	S-3	Total/NA	Solid	Total BTEX	
880-55262-31	S-4	Total/NA	Solid	Total BTEX	
880-55262-32	S-4	Total/NA	Solid	Total BTEX	
880-55262-33	S-4	Total/NA	Solid	Total BTEX	
880-55262-34	S-4	Total/NA	Solid	Total BTEX	
880-55262-35	S-4	Total/NA	Solid	Total BTEX	
880-55262-36	S-4	Total/NA	Solid	Total BTEX	
880-55262-37	S-5	Total/NA	Solid	Total BTEX	
880-55262-38	S-5	Total/NA	Solid	Total BTEX	
880-55262-39	S-5	Total/NA	Solid	Total BTEX	
880-55262-40	S-5	Total/NA	Solid	Total BTEX	
880-55262-41	S-5	Total/NA	Solid	Total BTEX	
880-55262-42	S-5	Total/NA	Solid	Total BTEX	
880-55262-43	S-6	Total/NA	Solid	Total BTEX	
880-55262-44	S-6	Total/NA	Solid	Total BTEX	
880-55262-45	S-6	Total/NA	Solid	Total BTEX	
880-55262-46	S-6	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## GC VOA (Continued)

## Analysis Batch: 104732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-47	S-6	Total/NA	Solid	Total BTEX	
880-55262-48	S-6	Total/NA	Solid	Total BTEX	
880-55262-49	S-6	Total/NA	Solid	Total BTEX	

## Analysis Batch: 104771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Total/NA	Solid	8021B	104609
880-55262-2	S-1	Total/NA	Solid	8021B	104609
880-55262-3	S-1	Total/NA	Solid	8021B	104609
880-55262-4	S-1	Total/NA	Solid	8021B	104609
880-55262-5	S-1	Total/NA	Solid	8021B	104609
880-55262-6	S-1	Total/NA	Solid	8021B	104609
880-55262-7	S-1	Total/NA	Solid	8021B	104609
880-55262-8	S-1	Total/NA	Solid	8021B	104609
880-55262-19	S-2	Total/NA	Solid	8021B	104609
880-55262-20	S-2	Total/NA	Solid	8021B	104609
MB 880-104479/5-A	Method Blank	Total/NA	Solid	8021B	104479
MB 880-104609/5-A	Method Blank	Total/NA	Solid	8021B	104609
LCS 880-104609/1-A	Lab Control Sample	Total/NA	Solid	8021B	104609
LCSD 880-104609/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104609
880-55262-1 MS	S-1	Total/NA	Solid	8021B	104609
880-55262-1 MSD	S-1	Total/NA	Solid	8021B	104609

## GC Semi VOA

## Prep Batch: 104565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Total/NA	Solid	8015NM Prep	
880-55262-2	S-1	Total/NA	Solid	8015NM Prep	
880-55262-3	S-1	Total/NA	Solid	8015NM Prep	
880-55262-4	S-1	Total/NA	Solid	8015NM Prep	
880-55262-5	S-1	Total/NA	Solid	8015NM Prep	
880-55262-6	S-1	Total/NA	Solid	8015NM Prep	
880-55262-7	S-1	Total/NA	Solid	8015NM Prep	
880-55262-8	S-1	Total/NA	Solid	8015NM Prep	
MB 880-104565/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104565/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104565/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7770-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7770-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Prep Batch: 104566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-19	S-2	Total/NA	Solid	8015NM Prep	
880-55262-20	S-2	Total/NA	Solid	8015NM Prep	
880-55262-21	S-2	Total/NA	Solid	8015NM Prep	
880-55262-22	S-2	Total/NA	Solid	8015NM Prep	
880-55262-23	S-2	Total/NA	Solid	8015NM Prep	
880-55262-24	S-2	Total/NA	Solid	8015NM Prep	
880-55262-25	S-3	Total/NA	Solid	8015NM Prep	
880-55262-26	S-3	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## GC Semi VOA (Continued)

## Prep Batch: 104566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-27	S-3	Total/NA	Solid	8015NM Prep	
880-55262-28	S-3	Total/NA	Solid	8015NM Prep	
880-55262-29	S-3	Total/NA	Solid	8015NM Prep	
880-55262-30	S-3	Total/NA	Solid	8015NM Prep	
880-55262-31	S-4	Total/NA	Solid	8015NM Prep	
880-55262-32	S-4	Total/NA	Solid	8015NM Prep	
880-55262-33	S-4	Total/NA	Solid	8015NM Prep	
880-55262-34	S-4	Total/NA	Solid	8015NM Prep	
880-55262-35	S-4	Total/NA	Solid	8015NM Prep	
880-55262-36	S-4	Total/NA	Solid	8015NM Prep	
880-55262-37	S-5	Total/NA	Solid	8015NM Prep	
880-55262-38	S-5	Total/NA	Solid	8015NM Prep	
MB 880-104566/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104566/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104566/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55262-22 MS	S-2	Total/NA	Solid	8015NM Prep	
880-55262-22 MSD	S-2	Total/NA	Solid	8015NM Prep	

## Prep Batch: 104567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-39	S-5	Total/NA	Solid	8015NM Prep	
880-55262-40	S-5	Total/NA	Solid	8015NM Prep	
880-55262-41	S-5	Total/NA	Solid	8015NM Prep	
880-55262-42	S-5	Total/NA	Solid	8015NM Prep	
880-55262-43	S-6	Total/NA	Solid	8015NM Prep	
880-55262-44	S-6	Total/NA	Solid	8015NM Prep	
880-55262-45	S-6	Total/NA	Solid	8015NM Prep	
880-55262-47	S-6	Total/NA	Solid	8015NM Prep	
880-55262-48	S-6	Total/NA	Solid	8015NM Prep	
880-55262-49	S-6	Total/NA	Solid	8015NM Prep	
MB 880-104567/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104567/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104567/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55262-39 MS	S-5	Total/NA	Solid	8015NM Prep	
880-55262-39 MSD	S-5	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 104614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Total/NA	Solid	8015B NM	104565
880-55262-2	S-1	Total/NA	Solid	8015B NM	104565
880-55262-3	S-1	Total/NA	Solid	8015B NM	104565
880-55262-4	S-1	Total/NA	Solid	8015B NM	104565
880-55262-5	S-1	Total/NA	Solid	8015B NM	104565
880-55262-6	S-1	Total/NA	Solid	8015B NM	104565
880-55262-7	S-1	Total/NA	Solid	8015B NM	104565
880-55262-8	S-1	Total/NA	Solid	8015B NM	104565
MB 880-104565/1-A	Method Blank	Total/NA	Solid	8015B NM	104565
LCS 880-104565/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104565
LCSD 880-104565/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104565
890-7770-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	104565
890-7770-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104565

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## GC Semi VOA

## Analysis Batch: 104761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Total/NA	Solid	8015 NM	
880-55262-2	S-1	Total/NA	Solid	8015 NM	
880-55262-3	S-1	Total/NA	Solid	8015 NM	
880-55262-4	S-1	Total/NA	Solid	8015 NM	
880-55262-5	S-1	Total/NA	Solid	8015 NM	
880-55262-6	S-1	Total/NA	Solid	8015 NM	
880-55262-7	S-1	Total/NA	Solid	8015 NM	
880-55262-8	S-1	Total/NA	Solid	8015 NM	
880-55262-19	S-2	Total/NA	Solid	8015 NM	
880-55262-20	S-2	Total/NA	Solid	8015 NM	
880-55262-21	S-2	Total/NA	Solid	8015 NM	
880-55262-22	S-2	Total/NA	Solid	8015 NM	
880-55262-23	S-2	Total/NA	Solid	8015 NM	
880-55262-24	S-2	Total/NA	Solid	8015 NM	
880-55262-25	S-3	Total/NA	Solid	8015 NM	
880-55262-26	S-3	Total/NA	Solid	8015 NM	
880-55262-27	S-3	Total/NA	Solid	8015 NM	
880-55262-28	S-3	Total/NA	Solid	8015 NM	
880-55262-29	S-3	Total/NA	Solid	8015 NM	
880-55262-30	S-3	Total/NA	Solid	8015 NM	
880-55262-31	S-4	Total/NA	Solid	8015 NM	
880-55262-32	S-4	Total/NA	Solid	8015 NM	
880-55262-33	S-4	Total/NA	Solid	8015 NM	
880-55262-34	S-4	Total/NA	Solid	8015 NM	
880-55262-35	S-4	Total/NA	Solid	8015 NM	
880-55262-36	S-4	Total/NA	Solid	8015 NM	
880-55262-37	S-5	Total/NA	Solid	8015 NM	
880-55262-38	S-5	Total/NA	Solid	8015 NM	
880-55262-39	S-5	Total/NA	Solid	8015 NM	
880-55262-40	S-5	Total/NA	Solid	8015 NM	
880-55262-41	S-5	Total/NA	Solid	8015 NM	
880-55262-42	S-5	Total/NA	Solid	8015 NM	
880-55262-43	S-6	Total/NA	Solid	8015 NM	
880-55262-44	S-6	Total/NA	Solid	8015 NM	
880-55262-45	S-6	Total/NA	Solid	8015 NM	
880-55262-46	S-6	Total/NA	Solid	8015 NM	
880-55262-47	S-6	Total/NA	Solid	8015 NM	
880-55262-48	S-6	Total/NA	Solid	8015 NM	
880-55262-49	S-6	Total/NA	Solid	8015 NM	

## Analysis Batch: 104784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-39	S-5	Total/NA	Solid	8015B NM	104567
880-55262-40	S-5	Total/NA	Solid	8015B NM	104567
880-55262-41	S-5	Total/NA	Solid	8015B NM	104567
880-55262-42	S-5	Total/NA	Solid	8015B NM	104567
880-55262-43	S-6	Total/NA	Solid	8015B NM	104567
880-55262-44	S-6	Total/NA	Solid	8015B NM	104567
880-55262-45	S-6	Total/NA	Solid	8015B NM	104567
880-55262-47	S-6	Total/NA	Solid	8015B NM	104567
880-55262-48	S-6	Total/NA	Solid	8015B NM	104567

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## GC Semi VOA (Continued)

## Analysis Batch: 104784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-49	S-6	Total/NA	Solid	8015B NM	104567
MB 880-104567/1-A	Method Blank	Total/NA	Solid	8015B NM	104567
LCS 880-104567/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104567
LCSD 880-104567/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104567
880-55262-39 MS	S-5	Total/NA	Solid	8015B NM	104567
880-55262-39 MSD	S-5	Total/NA	Solid	8015B NM	104567

## Prep Batch: 104814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-46	S-6	Total/NA	Solid	8015NM Prep	
MB 880-104814/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104814/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7787-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7787-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 104861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-46	S-6	Total/NA	Solid	8015B NM	104814
MB 880-104814/1-A	Method Blank	Total/NA	Solid	8015B NM	104814
LCS 880-104814/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104814
LCSD 880-104814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104814
890-7787-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	104814
890-7787-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104814

## Analysis Batch: 104999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-19	S-2	Total/NA	Solid	8015B NM	104566
880-55262-20	S-2	Total/NA	Solid	8015B NM	104566
880-55262-21	S-2	Total/NA	Solid	8015B NM	104566
880-55262-22	S-2	Total/NA	Solid	8015B NM	104566
880-55262-23	S-2	Total/NA	Solid	8015B NM	104566
880-55262-24	S-2	Total/NA	Solid	8015B NM	104566
880-55262-25	S-3	Total/NA	Solid	8015B NM	104566
880-55262-26	S-3	Total/NA	Solid	8015B NM	104566
880-55262-27	S-3	Total/NA	Solid	8015B NM	104566
880-55262-28	S-3	Total/NA	Solid	8015B NM	104566
880-55262-29	S-3	Total/NA	Solid	8015B NM	104566
880-55262-30	S-3	Total/NA	Solid	8015B NM	104566
880-55262-31	S-4	Total/NA	Solid	8015B NM	104566
880-55262-32	S-4	Total/NA	Solid	8015B NM	104566
880-55262-33	S-4	Total/NA	Solid	8015B NM	104566
880-55262-34	S-4	Total/NA	Solid	8015B NM	104566
880-55262-35	S-4	Total/NA	Solid	8015B NM	104566
880-55262-36	S-4	Total/NA	Solid	8015B NM	104566
880-55262-37	S-5	Total/NA	Solid	8015B NM	104566
880-55262-38	S-5	Total/NA	Solid	8015B NM	104566
MB 880-104566/1-A	Method Blank	Total/NA	Solid	8015B NM	104566
LCS 880-104566/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104566
LCSD 880-104566/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104566
880-55262-22 MS	S-2	Total/NA	Solid	8015B NM	104566

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## GC Semi VOA (Continued)

## Analysis Batch: 104999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-22 MSD	S-2	Total/NA	Solid	8015B NM	104566

## HPLC/IC

## Leach Batch: 104630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Soluble	Solid	DI Leach	
880-55262-2	S-1	Soluble	Solid	DI Leach	
880-55262-3	S-1	Soluble	Solid	DI Leach	
880-55262-4	S-1	Soluble	Solid	DI Leach	
880-55262-5	S-1	Soluble	Solid	DI Leach	
880-55262-6	S-1	Soluble	Solid	DI Leach	
880-55262-7	S-1	Soluble	Solid	DI Leach	
880-55262-8	S-1	Soluble	Solid	DI Leach	
880-55262-19	S-2	Soluble	Solid	DI Leach	
880-55262-20	S-2	Soluble	Solid	DI Leach	
880-55262-21	S-2	Soluble	Solid	DI Leach	
880-55262-22	S-2	Soluble	Solid	DI Leach	
880-55262-23	S-2	Soluble	Solid	DI Leach	
880-55262-24	S-2	Soluble	Solid	DI Leach	
880-55262-25	S-3	Soluble	Solid	DI Leach	
880-55262-26	S-3	Soluble	Solid	DI Leach	
880-55262-27	S-3	Soluble	Solid	DI Leach	
MB 880-104630/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104630/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104630/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55262-8 MS	S-1	Soluble	Solid	DI Leach	
880-55262-8 MSD	S-1	Soluble	Solid	DI Leach	

## Leach Batch: 104631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-28	S-3	Soluble	Solid	DI Leach	
880-55262-29	S-3	Soluble	Solid	DI Leach	
880-55262-30	S-3	Soluble	Solid	DI Leach	
880-55262-31	S-4	Soluble	Solid	DI Leach	
880-55262-32	S-4	Soluble	Solid	DI Leach	
880-55262-33	S-4	Soluble	Solid	DI Leach	
880-55262-34	S-4	Soluble	Solid	DI Leach	
880-55262-35	S-4	Soluble	Solid	DI Leach	
880-55262-36	S-4	Soluble	Solid	DI Leach	
880-55262-37	S-5	Soluble	Solid	DI Leach	
880-55262-38	S-5	Soluble	Solid	DI Leach	
880-55262-39	S-5	Soluble	Solid	DI Leach	
880-55262-40	S-5	Soluble	Solid	DI Leach	
880-55262-41	S-5	Soluble	Solid	DI Leach	
880-55262-42	S-5	Soluble	Solid	DI Leach	
880-55262-43	S-6	Soluble	Solid	DI Leach	
880-55262-44	S-6	Soluble	Solid	DI Leach	
880-55262-45	S-6	Soluble	Solid	DI Leach	
880-55262-46	S-6	Soluble	Solid	DI Leach	
880-55262-47	S-6	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## HPLC/IC (Continued)

## Leach Batch: 104631 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104631/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104631/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104631/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55262-28 MS	S-3	Soluble	Solid	DI Leach	
880-55262-28 MSD	S-3	Soluble	Solid	DI Leach	
880-55262-38 MS	S-5	Soluble	Solid	DI Leach	
880-55262-38 MSD	S-5	Soluble	Solid	DI Leach	

## Leach Batch: 104632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-48	S-6	Soluble	Solid	DI Leach	
880-55262-49	S-6	Soluble	Solid	DI Leach	
MB 880-104632/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104632/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104632/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55262-48 MS	S-6	Soluble	Solid	DI Leach	
880-55262-48 MSD	S-6	Soluble	Solid	DI Leach	

## Analysis Batch: 104782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Soluble	Solid	300.0	104630
880-55262-2	S-1	Soluble	Solid	300.0	104630
880-55262-3	S-1	Soluble	Solid	300.0	104630
880-55262-4	S-1	Soluble	Solid	300.0	104630
880-55262-5	S-1	Soluble	Solid	300.0	104630
880-55262-6	S-1	Soluble	Solid	300.0	104630
880-55262-7	S-1	Soluble	Solid	300.0	104630
880-55262-8	S-1	Soluble	Solid	300.0	104630
880-55262-19	S-2	Soluble	Solid	300.0	104630
880-55262-20	S-2	Soluble	Solid	300.0	104630
880-55262-21	S-2	Soluble	Solid	300.0	104630
880-55262-22	S-2	Soluble	Solid	300.0	104630
880-55262-23	S-2	Soluble	Solid	300.0	104630
880-55262-24	S-2	Soluble	Solid	300.0	104630
880-55262-25	S-3	Soluble	Solid	300.0	104630
880-55262-26	S-3	Soluble	Solid	300.0	104630
880-55262-27	S-3	Soluble	Solid	300.0	104630
MB 880-104630/1-A	Method Blank	Soluble	Solid	300.0	104630
LCS 880-104630/2-A	Lab Control Sample	Soluble	Solid	300.0	104630
LCSD 880-104630/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104630
880-55262-8 MS	S-1	Soluble	Solid	300.0	104630
880-55262-8 MSD	S-1	Soluble	Solid	300.0	104630

## Analysis Batch: 104783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-28	S-3	Soluble	Solid	300.0	104631
880-55262-29	S-3	Soluble	Solid	300.0	104631
880-55262-30	S-3	Soluble	Solid	300.0	104631
880-55262-31	S-4	Soluble	Solid	300.0	104631
880-55262-32	S-4	Soluble	Solid	300.0	104631
880-55262-33	S-4	Soluble	Solid	300.0	104631

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## HPLC/IC (Continued)

## Analysis Batch: 104783 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-34	S-4	Soluble	Solid	300.0	104631
880-55262-35	S-4	Soluble	Solid	300.0	104631
880-55262-36	S-4	Soluble	Solid	300.0	104631
880-55262-37	S-5	Soluble	Solid	300.0	104631
880-55262-38	S-5	Soluble	Solid	300.0	104631
880-55262-39	S-5	Soluble	Solid	300.0	104631
880-55262-40	S-5	Soluble	Solid	300.0	104631
880-55262-41	S-5	Soluble	Solid	300.0	104631
880-55262-42	S-5	Soluble	Solid	300.0	104631
880-55262-43	S-6	Soluble	Solid	300.0	104631
880-55262-44	S-6	Soluble	Solid	300.0	104631
880-55262-45	S-6	Soluble	Solid	300.0	104631
880-55262-46	S-6	Soluble	Solid	300.0	104631
880-55262-47	S-6	Soluble	Solid	300.0	104631
MB 880-104631/1-A	Method Blank	Soluble	Solid	300.0	104631
LCS 880-104631/2-A	Lab Control Sample	Soluble	Solid	300.0	104631
LCSD 880-104631/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104631
880-55262-28 MS	S-3	Soluble	Solid	300.0	104631
880-55262-28 MSD	S-3	Soluble	Solid	300.0	104631
880-55262-38 MS	S-5	Soluble	Solid	300.0	104631
880-55262-38 MSD	S-5	Soluble	Solid	300.0	104631

## Analysis Batch: 104844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-48	S-6	Soluble	Solid	300.0	104632
880-55262-49	S-6	Soluble	Solid	300.0	104632
MB 880-104632/1-A	Method Blank	Soluble	Solid	300.0	104632
LCS 880-104632/2-A	Lab Control Sample	Soluble	Solid	300.0	104632
LCSD 880-104632/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104632
880-55262-48 MS	S-6	Soluble	Solid	300.0	104632
880-55262-48 MSD	S-6	Soluble	Solid	300.0	104632

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-1

Lab Sample ID: 880-55262-1

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 04:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 04:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 21:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 21:44	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 11:40	CH	EET MID

Client Sample ID: S-1

Lab Sample ID: 880-55262-2

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 04:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 04:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 22:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 22:00	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 11:47	CH	EET MID

Client Sample ID: S-1

Lab Sample ID: 880-55262-3

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 05:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 05:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 22:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 22:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 12:05	CH	EET MID

Client Sample ID: S-1

Lab Sample ID: 880-55262-4

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 05:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 05:37	AJ	EET MID

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## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-1

Lab Sample ID: 880-55262-4

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104761	03/06/25 22:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 22:33	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 12:11	CH	EET MID

Client Sample ID: S-1

Lab Sample ID: 880-55262-5

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 05:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 22:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 22:49	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 12:17	CH	EET MID

Client Sample ID: S-1

Lab Sample ID: 880-55262-6

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 06:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 06:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 23:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 23:04	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	104782	03/09/25 12:23	CH	EET MID

Client Sample ID: S-1

Lab Sample ID: 880-55262-7

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 06:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 06:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 23:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 23:21	TKC	EET MID

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## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-1

## Lab Sample ID: 880-55262-7

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	104782	03/09/25 12:29	CH	EET MID

## Client Sample ID: S-1

## Lab Sample ID: 880-55262-8

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 06:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 06:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 23:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 23:37	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/10/25 12:35	CH	EET MID

## Client Sample ID: S-2

## Lab Sample ID: 880-55262-19

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 07:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 07:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 17:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 17:14	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 12:54	CH	EET MID

## Client Sample ID: S-2

## Lab Sample ID: 880-55262-20

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 07:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 07:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 17:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 17:29	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 13:00	CH	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-2

## Lab Sample ID: 880-55262-21

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 00:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 00:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 17:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 17:44	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 13:18	CH	EET MID

## Client Sample ID: S-2

## Lab Sample ID: 880-55262-22

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 00:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 00:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 16:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 16:29	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 13:24	CH	EET MID

## Client Sample ID: S-2

## Lab Sample ID: 880-55262-23

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 01:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 01:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 17:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 17:59	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 14:43	CH	EET MID

## Client Sample ID: S-2

## Lab Sample ID: 880-55262-24

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 01:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 01:39	AJ	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-2

## Lab Sample ID: 880-55262-24

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104761	03/11/25 18:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 18:14	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 14:49	CH	EET MID

## Client Sample ID: S-3

## Lab Sample ID: 880-55262-25

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 01:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 01:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 18:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 18:29	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 14:56	CH	EET MID

## Client Sample ID: S-3

## Lab Sample ID: 880-55262-26

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 03:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 03:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 18:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 18:45	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 15:02	CH	EET MID

## Client Sample ID: S-3

## Lab Sample ID: 880-55262-27

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 03:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 03:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 19:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 19:00	TKC	EET MID

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## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-3

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

## Lab Sample ID: 880-55262-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 15:08	CH	EET MID

## Client Sample ID: S-3

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

## Lab Sample ID: 880-55262-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 04:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 04:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 19:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 19:15	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 15:56	CH	EET MID

## Client Sample ID: S-3

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

## Lab Sample ID: 880-55262-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 04:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 04:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 19:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 19:45	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:15	CH	EET MID

## Client Sample ID: S-3

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

## Lab Sample ID: 880-55262-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 04:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 04:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 19:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 19:59	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:21	CH	EET MID

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## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-4

Lab Sample ID: 880-55262-31

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 06:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 06:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 20:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 20:14	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:27	CH	EET MID

Client Sample ID: S-4

Lab Sample ID: 880-55262-32

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 06:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 06:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 20:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 20:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:33	CH	EET MID

Client Sample ID: S-4

Lab Sample ID: 880-55262-33

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 07:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 07:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 20:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 20:44	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:52	CH	EET MID

Client Sample ID: S-4

Lab Sample ID: 880-55262-34

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 07:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 07:33	AJ	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-4

Lab Sample ID: 880-55262-34

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104761	03/11/25 21:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 21:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:58	CH	EET MID

Client Sample ID: S-4

Lab Sample ID: 880-55262-35

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 07:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 07:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 21:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 21:15	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:04	CH	EET MID

Client Sample ID: S-4

Lab Sample ID: 880-55262-36

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 08:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 08:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 21:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 21:31	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:10	CH	EET MID

Client Sample ID: S-5

Lab Sample ID: 880-55262-37

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 08:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 08:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 21:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 21:45	TKC	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-5

Lab Sample ID: 880-55262-37

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:16	CH	EET MID

Client Sample ID: S-5

Lab Sample ID: 880-55262-38

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 08:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 08:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 22:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 22:01	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:22	CH	EET MID

Client Sample ID: S-5

Lab Sample ID: 880-55262-39

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 09:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 09:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 04:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 04:31	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:40	CH	EET MID

Client Sample ID: S-5

Lab Sample ID: 880-55262-40

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 09:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 09:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 05:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 05:16	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:47	CH	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-5

Lab Sample ID: 880-55262-41

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 16:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 05:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 05:33	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:05	CH	EET MID

Client Sample ID: S-5

Lab Sample ID: 880-55262-42

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 17:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 05:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 05:47	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:11	CH	EET MID

Client Sample ID: S-6

Lab Sample ID: 880-55262-43

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 17:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 06:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 06:02	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:17	CH	EET MID

Client Sample ID: S-6

Lab Sample ID: 880-55262-44

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 17:42	AJ	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Client Sample ID: S-6

Lab Sample ID: 880-55262-44

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104761	03/08/25 06:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 06:17	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:23	CH	EET MID

Client Sample ID: S-6

Lab Sample ID: 880-55262-45

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 18:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 06:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 06:33	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:29	CH	EET MID

Client Sample ID: S-6

Lab Sample ID: 880-55262-46

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 18:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/10/25 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104861	03/10/25 15:55	TKC	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	104814	03/10/25 17:18	EL	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:35	CH	EET MID

Client Sample ID: S-6

Lab Sample ID: 880-55262-47

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 18:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 07:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 07:02	TKC	EET MID

Eurofins Midland



## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

## Client Sample ID: S-6

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

## Lab Sample ID: 880-55262-47

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:41	CH	EET MID

## Client Sample ID: S-6

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

## Lab Sample ID: 880-55262-48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 19:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 07:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 07:17	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	104632	03/06/25 13:03	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 16:09	CH	EET MID

## Client Sample ID: S-6

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

## Lab Sample ID: 880-55262-49

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 19:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 07:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 07:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	104632	03/06/25 13:03	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 16:27	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 #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1  
SDG: Eddy Co 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 #23

Job ID: 880-55262-1  
SDG: Eddy Co NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-55262-1	S-1	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-2	S-1	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-3	S-1	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-4	S-1	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-5	S-1	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-6	S-1	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-7	S-1	Solid	03/04/25 00:00	03/05/25 16:08	6'
880-55262-8	S-1	Solid	03/04/25 00:00	03/05/25 16:08	7'
880-55262-19	S-2	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-20	S-2	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-21	S-2	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-22	S-2	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-23	S-2	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-24	S-2	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-25	S-3	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-26	S-3	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-27	S-3	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-28	S-3	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-29	S-3	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-30	S-3	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-31	S-4	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-32	S-4	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-33	S-4	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-34	S-4	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-35	S-4	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-36	S-4	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-37	S-5	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-38	S-5	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-39	S-5	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-40	S-5	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-41	S-5	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-42	S-5	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-43	S-6	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-44	S-6	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-45	S-6	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-46	S-6	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-47	S-6	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-48	S-6	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-49	S-6	Solid	03/04/25 00:00	03/05/25 16:08	6'

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Chain of Custody

Wo



880-55262 Chain of Custody

Page 1 of 5

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Unperturbed <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Benson Shugart Waterflood #23	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	2412	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush														None: NO	DI Water: H <sub>2</sub> O
Project Location:	Eddy Co. NM	Due Date:	Normal													Cool: Cool	MeOH: Me
Sampler's Name:	RP/KR															HCL: HC	HNO <sub>3</sub> : HN
PO #:																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No												H <sub>3</sub> PO <sub>4</sub> : HP	
Received In tact:	Yes No	Thermometer ID:														NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes No	Correction Factor:														Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes No	Temperature Reading:														Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:														NaOH+Ascorbic Acid: SAPC	
Sample Identification	Date	Time	Soil	Depth	Grab/Comp	# of Cont											Sample Comments
S-1	3/4/2025		X	0-1'	Grab	1	X	X	X								
S-1	3/4/2025		X	1.5'	Grab	1	X	X	X								
S-1	3/4/2025		X	2'	Grab	1	X	X	X								
S-1	3/4/2025		X	3'	Grab	1	X	X	X								
S-1	3/4/2025		X	4'	Grab	1	X	X	X								
S-1	3/4/2025		X	5'	Grab	1	X	X	X								
S-1	3/4/2025		X	6'	Grab	1	X	X	X								
S-1	3/4/2025		X	7'	Grab	1	X	X	X								
S-1	3/4/2025		X	8'	Grab	1										X	
S-1	3/4/2025		X	9'	Grab	1										X	

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time



Chain of Custody

Work Order No: \_\_\_\_\_

Page 2 of 5

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Benson Shugart Waterflood #23	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	2412	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush															None: NO	DI Water: H <sub>2</sub> O	
Project Location	Eddy Co. NM	Due Date:	Normal														Cool: Cool	MeOH: Me	
Sampler's Name:	RP/KR																HCL: HC	HNO <sub>3</sub> : HN	
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes No	Well Ice:	Yes No													HOLD	
Received Intact:	Yes No	Thermometer ID:																H <sub>3</sub> PO <sub>4</sub> : HP	
Cooler Custody Seals:	Yes No N/A	Correction Factor:																NaHSO <sub>4</sub> : NABIS	
Sample Custody Seals:	Yes No N/A	Temperature Reading:																Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Total Containers:		Corrected Temperature:																Zn Acetate+NaOH: Zn	
																		NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Depth	Grab/ comp	# of Cont	TPH												Sample Comments
S-1	3/4/2025		X	10'	Grab	1												X	
S-1	3/4/2025		X	12'	Grab	1												X	
S-1	3/4/2025		X	14'	Grab	1												X	
S-1	3/4/2025		X	16'	Grab	1												X	
S-1	3/4/2025		X	18'	Grab	1												X	
S-1	3/4/2025		X	20'	Grab	1												X	
S-1	3/4/2025		X	25'	Grab	1												X	
S-1	3/4/2025		X	30'	Grab	1												X	
S-2	3/4/2025		X	0-1'	Grab	1		X	X	X									
S-2	3/4/2025		X	1.5'	Grab	1		X	X	X									

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2			
		4			
		6			

Chain of Custody

Work Order No: \_\_\_\_\_



Page 3 of 5

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Benson Shugart Waterflood #23	Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes				
Project Number:	2412	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush													None: NO	DI Water: H <sub>2</sub> O		
Project Location:	Eddy Co. NM	Due Date:	Normal													Cool: Cool	MeOH: Me		
Sampler's Name:	RP/KR															HCL: HC	HNO <sub>3</sub> : HN		
PO #:																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na		
SAMPLE RECEIPT				Temp Blank:	Yes	No	Well Ice:	Yes	No									HOLD	
Received Intact:	Yes	No	Thermometer ID:														NaHSO <sub>4</sub> : HP		
Cooler Custody Seals:	Yes	No	Correction Factor:														Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NABIS		
Sample Custody Seals:	Yes	No	Temperature Reading:														Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>		
Total Containers:			Corrected Temperature:														Zn Acetate+NaOH: Zn		
																	NaOH+Ascorbic Acid: SAPC		
Sample Identification	Date	Time	Soil	Depth	Grab/Comp	# of Cont											Sample Comments		
S-2	3/4/2025		X	2'	Grab	1	X	X	X	X									
S-2	3/4/2025		X	3'	Grab	1	X	X	X	X									
S-2	3/4/2025		X	4'	Grab	1	X	X	X	X									
S-2	3/4/2025		X	5'	Grab	1	X	X	X	X									
S-3	3/4/2025		X	0-1'	Grab	1	X	X	X	X									
S-3	3/4/2025		X	1.5'	Grab	1	X	X	X	X									
S-3	3/4/2025		X	2'	Grab	1	X	X	X	X									
S-3	3/4/2025		X	3'	Grab	1	X	X	X	X									
S-3	3/4/2025		X	4'	Grab	1	X	X	X	X									
S-3	3/4/2025		X	5'	Grab	1	X	X	X	X									

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2			
		4			
		6			

Chain of Custody

Work Order No: \_\_\_\_\_

Page 4 of 5

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Benson Shugart Waterflood #23	Turn Around	Pres. Code	ANALYSIS REQUEST										Preservative Codes			
Project Number:	2412	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush														None: NO	DI Water: H <sub>2</sub> O
Project Location:	Eddy Co. NM	Due Date:	Normal													Cool: Cool	MeOH: Me
Sampler's Name:	RP/KR															HCL: HC	HNO <sub>3</sub> : HN
PO #:																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Well Ice:	Yes No											HOLD	
Received Intact:	Yes No	Thermometer ID:												H <sub>3</sub> PO <sub>4</sub> : HP			
Cooler Custody Seals:	Yes No N/A	Correction Factor:												NaHSO <sub>4</sub> : NABIS			
Sample Custody Seals:	Yes No N/A	Temperature Reading:												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Total Containers:		Corrected Temperature:												Zn Acetate+NaOH: Zn			
														NaOH+Ascorbic Acid: SAPC			

Sample Identification	Date	Time	Soil	Depth	Grab/ Comp	# of Cont	TPH												Sample Comments
S-4	3/4/2025		X	0-1'	Grab	1	X	X	X										
S-4	3/4/2025		X	1.5'	Grab	1	X	X	X										
S-4	3/4/2025		X	2'	Grab	1	X	X	X										
S-4	3/4/2025		X	3'	Grab	1	X	X	X										
S-4	3/4/2025		X	4'	Grab	1	X	X	X										
S-4	3/4/2025		X	5'	Grab	1	X	X	X										
S-5	3/4/2025		X	0-1'	Grab	1	X	X	X										
S-5	3/4/2025		X	1.5'	Grab	1	X	X	X										
S-5	3/4/2025		X	2'	Grab	1	X	X	X										
S-5	3/4/2025		X	3'	Grab	1	X	X	X										

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2			
		4			
		6			



Chain of Custody

Work Order No: \_\_\_\_\_



Page 5 of 5

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRR <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Benson Shugart Waterflood #23	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes		
Project Number:	2412	Due Date:	Normal													None: NO	DI Water: H <sub>2</sub> O
Project Location:	Eddy Co. NM															Cool: Cool	MeOH: Me
Sampler's Name:	RP/KR															HCL: HC	HNO <sub>3</sub> : HN
PO #:																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No										H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes	No	Thermometer ID:													NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes	No	Correction Factor:													Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes	No	Temperature Reading:													Zn Acetate+NaOH: Zn	
Total Containers:			Corrected Temperature:													NaOH+Ascorbic Acid: SAPC	
Sample Identification	Date	Time	Soil	Depth	Grab/Comp	# of Cont											Sample Comments
S-5	3/4/2025		X	4'	Grab	1	X	X	X								
S-5	3/4/2025		X	5'	Grab	1	X	X	X								
S-6	3/4/2025		X	0-1'	Grab	1	X	X	X								
S-6	3/4/2025		X	1.5'	Grab	1	X	X	X								
S-6	3/4/2025		X	2'	Grab	1	X	X	X								
S-6	3/4/2025		X	3'	Grab	1	X	X	X								
S-6	3/4/2025		X	4'	Grab	1	X	X	X								
S-6	3/4/2025		X	5'	Grab	1	X	X	X								
S-6	3/4/2025		X	6'	Grab	1	X	X	X								

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2			
		4			
		6			

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-55262-1

SDG Number: Eddy Co NM

Login Number: 55262

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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





Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 3/11/2025 12:04:13 PM

## JOB DESCRIPTION

Benson Shugart Waterflood #23  
Eddy Co NM

## JOB NUMBER

880-55265-1

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  
3/11/2025 12:04:13 PM

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

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Laboratory Job ID: 880-55265-1  
SDG: Eddy Co NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	10
QC Sample Results . . . . .	11
QC Association Summary . . . . .	20
Lab Chronicle . . . . .	23
Certification Summary . . . . .	25
Method Summary . . . . .	26
Sample Summary . . . . .	27
Chain of Custody . . . . .	28
Receipt Checklists . . . . .	29

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14

Definitions/Glossary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

**Case Narrative**

Client: Carmona Resources  
Project: Benson Shugart Waterflood #23

Job ID: 880-55265-1

**Job ID: 880-55265-1****Eurofins Midland****Job Narrative  
880-55265-1**

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 3/5/2025 4:08 PM. 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 1.0°C.

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104609 and analytical batch 880-104771 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 sample was outside control limits: H-1 (880-55265-1). Evidence of matrix interferences is not obvious.

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



## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

Client Sample ID: H-1

Lab Sample ID: 880-55265-1

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
Ethylbenzene	0.0466		0.00199		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				03/06/25 11:22	03/07/25 04:21	1
1,4-Difluorobenzene (Surr)	83		70 - 130				03/06/25 11:22	03/07/25 04:21	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0466		0.00398		mg/Kg			03/07/25 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/10/25 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/10/25 17:18	03/10/25 16:10	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/10/25 17:18	03/10/25 16:10	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/10/25 17:18	03/10/25 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				03/10/25 17:18	03/10/25 16:10	1
o-Terphenyl	125		70 - 130				03/10/25 17:18	03/10/25 16:10	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94		mg/Kg			03/10/25 16:34	1

Client Sample ID: H-2

Lab Sample ID: 880-55265-2

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/07/25 04:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/07/25 04:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/07/25 04:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:22	03/07/25 04:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/07/25 04:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:22	03/07/25 04:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/06/25 11:22	03/07/25 04:42	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

Client Sample ID: H-2

Lab Sample ID: 880-55265-2

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	03/06/25 11:22	03/07/25 04:42	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/25 04:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/25 08:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 08:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 08:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				03/06/25 09:31	03/08/25 08:17	1
o-Terphenyl	72		70 - 130				03/06/25 09:31	03/08/25 08:17	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.90	U	9.90		mg/Kg			03/10/25 16:40	1

Client Sample ID: H-3

Lab Sample ID: 880-55265-3

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/07/25 09:02	03/07/25 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/07/25 09:02	03/07/25 19:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/07/25 09:02	03/07/25 19:19	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/07/25 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/25 08:34	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

## Client Sample ID: H-3

Lab Sample ID: 880-55265-3

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 08:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 08:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 08:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				03/06/25 09:31	03/08/25 08:34	1
o-Terphenyl	73		70 - 130				03/06/25 09:31	03/08/25 08:34	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			03/10/25 16:46	1

## Client Sample ID: H-4

Lab Sample ID: 880-55265-4

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 18:00	03/09/25 12:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 18:00	03/09/25 12:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 18:00	03/09/25 12:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 18:00	03/09/25 12:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 18:00	03/09/25 12:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 18:00	03/09/25 12:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				03/06/25 18:00	03/09/25 12:17	1
1,4-Difluorobenzene (Surr)	84		70 - 130				03/06/25 18:00	03/09/25 12:17	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/09/25 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/25 08:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 08:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 08:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 08:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/06/25 09:31	03/08/25 08:49	1
o-Terphenyl	86		70 - 130				03/06/25 09:31	03/08/25 08:49	1

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Client Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

Client Sample ID: H-4  
Date Collected: 03/04/25 00:00  
Date Received: 03/05/25 16:08  
Sample Depth: 0-1'

Lab Sample ID: 880-55265-4  
Matrix: Solid

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			03/10/25 17:04	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Surrogate Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-55192-A-201-A MS	Matrix Spike	103	104
880-55192-A-201-B MSD	Matrix Spike Duplicate	102	100
880-55249-A-21-E MS	Matrix Spike	106	102
880-55249-A-21-F MSD	Matrix Spike Duplicate	99	104
880-55262-A-1-B MS	Matrix Spike	120	94
880-55262-A-1-C MSD	Matrix Spike Duplicate	115	95
880-55265-1	H-1	87	83
880-55265-2	H-2	107	91
880-55265-3	H-3	100	100
880-55265-4	H-4	120	84
LCS 880-104455/1-A	Lab Control Sample	101	107
LCS 880-104600/1-A	Lab Control Sample	98	99
LCS 880-104609/1-A	Lab Control Sample	118	94
LCSD 880-104455/2-A	Lab Control Sample Dup	105	103
LCSD 880-104600/2-A	Lab Control Sample Dup	96	106
LCSD 880-104609/2-A	Lab Control Sample Dup	120	95
MB 880-104455/5-A	Method Blank	91	90
MB 880-104479/5-A	Method Blank	107	93
MB 880-104571/5-A	Method Blank	92	89
MB 880-104600/5-A	Method Blank	99	89
MB 880-104609/5-A	Method Blank	112	86
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-55262-A-39-B MS	Matrix Spike	81	74
880-55262-A-39-C MSD	Matrix Spike Duplicate	82	75
880-55265-1	H-1	137 S1+	125
880-55265-2	H-2	78	72
880-55265-3	H-3	80	73
880-55265-4	H-4	96	86
890-7787-A-1-H MS	Matrix Spike	88	77
890-7787-A-1-I MSD	Matrix Spike Duplicate	88	77
LCS 880-104567/2-A	Lab Control Sample	113	100
LCS 880-104814/2-A	Lab Control Sample	109	97
LCSD 880-104567/3-A	Lab Control Sample Dup	112	100
LCSD 880-104814/3-A	Lab Control Sample Dup	109	95
MB 880-104567/1-A	Method Blank	98	88
MB 880-104814/1-A	Method Blank	106	95
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

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

Lab Sample ID: MB 880-104455/5-A

Matrix: Solid

Analysis Batch: 104646

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 13:02	03/07/25 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 13:02	03/07/25 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 13:02	03/07/25 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 13:02	03/07/25 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 13:02	03/07/25 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 13:02	03/07/25 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/05/25 13:02	03/07/25 11:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/05/25 13:02	03/07/25 11:13	1

Lab Sample ID: LCS 880-104455/1-A

Matrix: Solid

Analysis Batch: 104646

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1208		mg/Kg		121	70 - 130
Toluene	0.100	0.1238		mg/Kg		124	70 - 130
Ethylbenzene	0.100	0.1194		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2173		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-104455/2-A

Matrix: Solid

Analysis Batch: 104646

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104455

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1205		mg/Kg		120	70 - 130	0	35
Toluene	0.100	0.1266		mg/Kg		127	70 - 130	2	35
Ethylbenzene	0.100	0.1236		mg/Kg		124	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2242		mg/Kg		112	70 - 130	3	35
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-55192-A-201-A MS

Matrix: Solid

Analysis Batch: 104646

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1088		mg/Kg		109	70 - 130
Toluene	<0.00200	U	0.100	0.1019		mg/Kg		102	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

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

Lab Sample ID: 880-55192-A-201-A MS

Matrix: Solid

Analysis Batch: 104646

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08615		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1485		mg/Kg		74	70 - 130
o-Xylene	<0.00200	U	0.100	0.07743		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-55192-A-201-B MSD

Matrix: Solid

Analysis Batch: 104646

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1064		mg/Kg		106	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.1021		mg/Kg		102	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.08484		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1496		mg/Kg		75	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.07543		mg/Kg		75	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-104479/5-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 14:32	03/08/25 16:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/05/25 14:32	03/08/25 16:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/05/25 14:32	03/08/25 16:17	1

Lab Sample ID: MB 880-104571/5-A

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:43	03/06/25 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:43	03/06/25 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:43	03/06/25 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 09:43	03/06/25 11:40	1

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

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

Lab Sample ID: MB 880-104571/5-A

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:43	03/06/25 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 09:43	03/06/25 11:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				03/06/25 09:43	03/06/25 11:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/06/25 09:43	03/06/25 11:40	1

Lab Sample ID: MB 880-104600/5-A

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/06/25 11:22	03/06/25 22:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/06/25 11:22	03/06/25 22:40	1

Lab Sample ID: LCS 880-104600/1-A

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1000		mg/Kg		100	70 - 130
Toluene	0.100	0.1086		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.1917		mg/Kg		96	70 - 130
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		70 - 130				
1,4-Difluorobenzene (Surr)	99		70 - 130				

Lab Sample ID: LCSD 880-104600/2-A

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104600

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1182		mg/Kg		118	70 - 130	17	35
Toluene	0.100	0.1183		mg/Kg		118	70 - 130	9	35
Ethylbenzene	0.100	0.1137		mg/Kg		114	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2042		mg/Kg		102	70 - 130	6	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	7	35

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-55249-A-21-E MS

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104600

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1043		mg/Kg		104	70 - 130
Toluene	<0.00200	U	0.100	0.1120		mg/Kg		112	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1081		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.00399		0.200	0.1970		mg/Kg		96	70 - 130
o-Xylene	0.00222		0.100	0.1029		mg/Kg		101	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-55249-A-21-F MSD

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104600

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1125		mg/Kg		113	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.1094		mg/Kg		109	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.1027		mg/Kg		103	70 - 130	5	35
m-Xylene & p-Xylene	0.00399		0.200	0.1854		mg/Kg		91	70 - 130	6	35
o-Xylene	0.00222		0.100	0.09703		mg/Kg		95	70 - 130	6	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-104609/5-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 11:49	03/09/25 04:14	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	112		70 - 130	03/06/25 11:49	03/09/25 04:14	1			
1,4-Difluorobenzene (Surr)	86		70 - 130	03/06/25 11:49	03/09/25 04:14	1			

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104609/1-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07110		mg/Kg		71	70 - 130
Toluene	0.100	0.07076		mg/Kg		71	70 - 130
Ethylbenzene	0.100	0.07589		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	0.200	0.1486		mg/Kg		74	70 - 130
o-Xylene	0.100	0.07596		mg/Kg		76	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-104609/2-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104609

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07783		mg/Kg		78	70 - 130	9	35
Toluene	0.100	0.07389		mg/Kg		74	70 - 130	4	35
Ethylbenzene	0.100	0.07172		mg/Kg		72	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1559		mg/Kg		78	70 - 130	5	35
o-Xylene	0.100	0.07902		mg/Kg		79	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-55262-A-1-B MS

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08117		mg/Kg		81	70 - 130
Toluene	<0.00200	U F1	0.100	0.05858	F1	mg/Kg		59	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.06055	F1	mg/Kg		61	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1178	F1	mg/Kg		59	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.06794	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-55262-A-1-C MSD

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08318		mg/Kg		83	70 - 130	2	35
Toluene	<0.00200	U F1	0.100	0.06349	F1	mg/Kg		63	70 - 130	8	35
Ethylbenzene	<0.00200	U F1	0.100	0.06248	F1	mg/Kg		62	70 - 130	3	35

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

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

Lab Sample ID: 880-55262-A-1-C MSD

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1215	F1	mg/Kg		61	70 - 130	3	35
o-Xylene	<0.00200	U F1	0.100	0.06740	F1	mg/Kg		67	70 - 130	1	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	95		70 - 130								

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

Lab Sample ID: MB 880-104567/1-A

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/08/25 03:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/08/25 03:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/08/25 03:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/06/25 09:17	03/08/25 03:45	1
o-Terphenyl	88		70 - 130				03/06/25 09:17	03/08/25 03:45	1

Lab Sample ID: LCS 880-104567/2-A

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1108		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1057		mg/Kg		106	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	113		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: LCSD 880-104567/3-A

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104567

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	994.2		mg/Kg		99	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	1050		mg/Kg		105	70 - 130	1	20

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

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

Lab Sample ID: LCSD 880-104567/3-A

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104567

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-55262-A-39-B MS

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104567

	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	999	785.6		mg/Kg		79	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	827.8		mg/Kg		83	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	81		70 - 130							
o-Terphenyl	74		70 - 130							

Lab Sample ID: 880-55262-A-39-C MSD

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104567

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	852.4		mg/Kg		85	70 - 130	8	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	854.5		mg/Kg		86	70 - 130	3	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	82		70 - 130									
o-Terphenyl	75		70 - 130									

Lab Sample ID: MB 880-104814/1-A

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104814

	MB	MB										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1			
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1			
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1			
	MB	MB										
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
1-Chlorooctane	106		70 - 130				03/09/25 20:40	03/10/25 09:39	1			
o-Terphenyl	95		70 - 130				03/09/25 20:40	03/10/25 09:39	1			

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104814/2-A

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	964.7		mg/Kg		96	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	109		70 - 130				
o-Terphenyl	97		70 - 130				

Lab Sample ID: LCSD 880-104814/3-A

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104814

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1010		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	951.8		mg/Kg		95	70 - 130	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	95		70 - 130						

Lab Sample ID: 890-7787-A-1-H MS

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	833.6		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	772.6		mg/Kg		78	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
1-Chlorooctane	88		70 - 130						
o-Terphenyl	77		70 - 130						

Lab Sample ID: 890-7787-A-1-I MSD

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	806.3		mg/Kg		81	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	773.4		mg/Kg		78	70 - 130	0	20
Surrogate	%Recovery	MSD Qualifier	Limits								
1-Chlorooctane	88		70 - 130								

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

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

Lab Sample ID: 890-7787-A-1-I MSD

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104814

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	77		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104632/1-A

Matrix: Solid

Analysis Batch: 104844

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<10.0	U	10.0		mg/Kg			03/10/25 15:51	1	

Lab Sample ID: LCS 880-104632/2-A

Matrix: Solid

Analysis Batch: 104844

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec		
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride		250	264.9		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-104632/3-A

Matrix: Solid

Analysis Batch: 104844

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	266.6		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 880-55262-A-48-D MS

Matrix: Solid

Analysis Batch: 104844

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS			%Rec		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	532		250	802.6		mg/Kg		108	90 - 110	

Lab Sample ID: 880-55262-A-48-E MSD

Matrix: Solid

Analysis Batch: 104844

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Chloride	532		250	804.7		mg/Kg		109	90 - 110	0

## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

## GC VOA

## Prep Batch: 104455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-3	H-3	Total/NA	Solid	5035	
MB 880-104455/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104455/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104455/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55192-A-201-A MS	Matrix Spike	Total/NA	Solid	5035	
880-55192-A-201-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Prep Batch: 104479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104479/5-A	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 104556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	8021B	104600
880-55265-2	H-2	Total/NA	Solid	8021B	104600
MB 880-104571/5-A	Method Blank	Total/NA	Solid	8021B	104571
MB 880-104600/5-A	Method Blank	Total/NA	Solid	8021B	104600
LCS 880-104600/1-A	Lab Control Sample	Total/NA	Solid	8021B	104600
LCSD 880-104600/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104600
880-55249-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	104600
880-55249-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104600

## Prep Batch: 104571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104571/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 104600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	5035	
880-55265-2	H-2	Total/NA	Solid	5035	
MB 880-104600/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104600/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104600/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55249-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
880-55249-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Prep Batch: 104609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-4	H-4	Total/NA	Solid	5035	
MB 880-104609/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104609/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104609/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55262-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-55262-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 104646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-3	H-3	Total/NA	Solid	8021B	104455
MB 880-104455/5-A	Method Blank	Total/NA	Solid	8021B	104455
LCS 880-104455/1-A	Lab Control Sample	Total/NA	Solid	8021B	104455
LCSD 880-104455/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104455

Eurofins Midland



## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

## GC VOA (Continued)

## Analysis Batch: 104646 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55192-A-201-A MS	Matrix Spike	Total/NA	Solid	8021B	104455
880-55192-A-201-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104455

## Analysis Batch: 104734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	Total BTEX	
880-55265-2	H-2	Total/NA	Solid	Total BTEX	
880-55265-3	H-3	Total/NA	Solid	Total BTEX	
880-55265-4	H-4	Total/NA	Solid	Total BTEX	

## Analysis Batch: 104771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-4	H-4	Total/NA	Solid	8021B	104609
MB 880-104479/5-A	Method Blank	Total/NA	Solid	8021B	104479
MB 880-104609/5-A	Method Blank	Total/NA	Solid	8021B	104609
LCS 880-104609/1-A	Lab Control Sample	Total/NA	Solid	8021B	104609
LCSD 880-104609/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104609
880-55262-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	104609
880-55262-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104609

## GC Semi VOA

## Prep Batch: 104567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-2	H-2	Total/NA	Solid	8015NM Prep	
880-55265-3	H-3	Total/NA	Solid	8015NM Prep	
880-55265-4	H-4	Total/NA	Solid	8015NM Prep	
MB 880-104567/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104567/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104567/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55262-A-39-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-55262-A-39-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 104784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-2	H-2	Total/NA	Solid	8015B NM	104567
880-55265-3	H-3	Total/NA	Solid	8015B NM	104567
880-55265-4	H-4	Total/NA	Solid	8015B NM	104567
MB 880-104567/1-A	Method Blank	Total/NA	Solid	8015B NM	104567
LCS 880-104567/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104567
LCSD 880-104567/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104567
880-55262-A-39-B MS	Matrix Spike	Total/NA	Solid	8015B NM	104567
880-55262-A-39-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104567

## Prep Batch: 104814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	8015NM Prep	
MB 880-104814/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104814/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7787-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

## GC Semi VOA (Continued)

## Prep Batch: 104814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7787-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 104861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	8015B NM	104814
MB 880-104814/1-A	Method Blank	Total/NA	Solid	8015B NM	104814
LCS 880-104814/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104814
LCSD 880-104814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104814
890-7787-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	104814
890-7787-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104814

## Analysis Batch: 104890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	8015 NM	
880-55265-2	H-2	Total/NA	Solid	8015 NM	
880-55265-3	H-3	Total/NA	Solid	8015 NM	
880-55265-4	H-4	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 104632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Soluble	Solid	DI Leach	
880-55265-2	H-2	Soluble	Solid	DI Leach	
880-55265-3	H-3	Soluble	Solid	DI Leach	
880-55265-4	H-4	Soluble	Solid	DI Leach	
MB 880-104632/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104632/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104632/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55262-A-48-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-55262-A-48-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 104844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Soluble	Solid	300.0	104632
880-55265-2	H-2	Soluble	Solid	300.0	104632
880-55265-3	H-3	Soluble	Solid	300.0	104632
880-55265-4	H-4	Soluble	Solid	300.0	104632
MB 880-104632/1-A	Method Blank	Soluble	Solid	300.0	104632
LCS 880-104632/2-A	Lab Control Sample	Soluble	Solid	300.0	104632
LCSD 880-104632/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104632
880-55262-A-48-D MS	Matrix Spike	Soluble	Solid	300.0	104632
880-55262-A-48-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	104632

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

## Client Sample ID: H-1

## Lab Sample ID: 880-55265-1

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104600	03/06/25 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104556	03/07/25 04:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104734	03/07/25 04:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104890	03/10/25 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104861	03/10/25 16:10	TKC	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	104814	03/10/25 17:18	EL	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104632	03/06/25 13:03	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 16:34	CH	EET MID

## Client Sample ID: H-2

## Lab Sample ID: 880-55265-2

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104600	03/06/25 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104556	03/07/25 04:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104734	03/07/25 04:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104890	03/08/25 08:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 08:17	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	104632	03/06/25 13:03	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 16:40	CH	EET MID

## Client Sample ID: H-3

## Lab Sample ID: 880-55265-3

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104455	03/07/25 09:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104646	03/07/25 19:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104734	03/07/25 19:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104890	03/08/25 08:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 08:34	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104632	03/06/25 13:03	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 16:46	CH	EET MID

## Client Sample ID: H-4

## Lab Sample ID: 880-55265-4

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104609	03/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104734	03/09/25 12:17	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

Client Sample ID: H-4

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Lab Sample ID: 880-55265-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104890	03/08/25 08:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 08:49	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104632	03/06/25 13:03	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 17:04	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 #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



Method Summary

Client: Carmona Resources  
Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1  
SDG: Eddy Co 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 #23

Job ID: 880-55265-1  
SDG: Eddy Co NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-55265-1	H-1	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55265-2	H-2	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55265-3	H-3	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55265-4	H-4	Solid	03/04/25 00:00	03/05/25 16:08	0-1'




- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	

[illegible]

**Please send results to [cmoehring@carmonaresources.com](mailto:cmoehring@carmonaresources.com) and [mcarmona@carmonaresources.com](mailto:mcarmona@carmonaresources.com)**

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		35-28			
		16008			

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-55265-1

SDG Number: Eddy Co NM

Login Number: 55265

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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



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

March 28, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BENSON SHUGART UNIT #23

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 15:37.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	03/27/2025	Sampling Date:	03/27/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART UNIT #23	Sampling Condition:	Cool & Intact
Project Number:	2412	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO NM		

**Sample ID: CS - 1 ( 5.5' ) (H251828-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	1.96	97.8	2.00	6.92	QM-07
Toluene*	<0.050	0.050	03/27/2025	ND	2.01	101	2.00	6.48	QM-07
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	1.97	98.6	2.00	6.59	QM-07
Total Xylenes*	<0.150	0.150	03/27/2025	ND	5.88	97.9	6.00	5.24	QM-07
Total BTX	<0.300	0.300	03/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/28/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 2 ( 5.5' ) (H251828-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/27/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/27/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 120 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 3 ( 5.5' ) (H251828-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/27/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/27/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 114 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/27/2025	Sampling Date:	03/27/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART UNIT #23	Sampling Condition:	Cool & Intact
Project Number:	2412	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO NM		

**Sample ID: CS - 4 ( 5.5' ) (H251828-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 96.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.8 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 5 ( 5.5' ) (H251828-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/28/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.8 % 40.6-153

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**Analytical Results For:**

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

Received:	03/27/2025	Sampling Date:	03/27/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART UNIT #23	Sampling Condition:	Cool & Intact
Project Number:	2412	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO NM		

**Sample ID: CS - 6 ( 5.5' ) (H251828-06)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 119 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 7 ( 5.5' ) (H251828-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	19.4	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 96.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.4 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 8 ( 5.5' ) (H251828-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTX	<0.300	0.300	03/28/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 9 ( 5.5' ) (H251828-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 10 ( 5.5' ) (H251828-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	71.9	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	118	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 11 ( 5.5' ) (H251828-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 12 ( 5.5' ) (H251828-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/27/2025	Sampling Date:	03/27/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART UNIT #23	Sampling Condition:	Cool & Intact
Project Number:	2412	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO NM		

**Sample ID: CS - 13 ( 5.5' ) (H251828-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.4 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 14 ( 4.5' ) (H251828-14)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/28/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/27/2025	Sampling Date:	03/27/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART UNIT #23	Sampling Condition:	Cool & Intact
Project Number:	2412	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO NM		

**Sample ID: CS - 15 ( 4.5' ) (H251828-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 16 ( 4.5' ) (H251828-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 17 ( 4.5' ) (H251828-17)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.5 % 40.6-153

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**Analytical Results For:**

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

Received:	03/27/2025	Sampling Date:	03/27/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	BENSON SHUGART UNIT #23	Sampling Condition:	Cool & Intact
Project Number:	2412	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO NM		

**Sample ID: CS - 18 ( 4.5' ) (H251828-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.1 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 19 ( 4.5' ) (H251828-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 20 ( 4.5' ) (H251828-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92		
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 80.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 21 ( 4.5' ) (H251828-21)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 77.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.4 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 1 ( 5.5' ) (H251828-22)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/28/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 59.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 56.0 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 2 ( 5.5' ) (H251828-23)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78		
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04		
Total BTEX	<0.300	0.300	03/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 67.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.6 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 3 ( 5.5' ) (H251828-24)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78		
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 50.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 51.2 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 4 ( 5.5' ) (H251828-25)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78		
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04		
Total BTEX	<0.300	0.300	03/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/28/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 59.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 56.2 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 5 ( 5.5' ) (H251828-26)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.5 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 6 ( 5.5' ) (H251828-27)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 69.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.9 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 7 ( 5.5' ) (H251828-28)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78		
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04		
Total BTEX	<0.300	0.300	03/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 8 ( 5.5' ) (H251828-29)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78		
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.9 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 9 ( 4.5' ) (H251828-30)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78		
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04		
Total BTEX	<0.300	0.300	03/28/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 10 ( 4.5' ) (H251828-31)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 53.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 52.0 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 11 ( 4.5' ) (H251828-32)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 60.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.6 % 40.6-153

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**Analytical Results For:**

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

Received: 03/27/2025  
 Reported: 03/28/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/27/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 12 ( 4.5' ) (H251828-33)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/28/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 70.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.1 % 40.6-153

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: HA51828

Page 1 of 4

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> upfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Benson Shugart Unit #23	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes				
Project Number:	2412															None: NO	DI Water: H <sub>2</sub> O		
Project Location:	Eddy Co. NM	Due Date:	24 Hour Rush													Cool: Cool	MeOH: Me		
Sampler's Name:	KR	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO <sub>3</sub> : HN		
PO #:																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters										HOLD			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	#440													NaHSO <sub>4</sub> : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	4.0-8-													Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	4.7°C													Zn Acetate+NaOH: Zn			
Total Containers:		Corrected Temperature:	5.0°C													NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
1	CS-1 (5.5)	3/27/2025		X		Comp	1	X	X	X									
2	CS-2 (5.5)	3/27/2025		X		Comp	1	X	X	X									
3	CS-3 (5.5)	3/27/2025		X		Comp	1	X	X	X									
4	CS-4 (5.5)	3/27/2025		X		Comp	1	X	X	X									
5	CS-5 (5.5)	3/27/2025		X		Comp	1	X	X	X									
6	CS-6 (5.5)	3/27/2025		X		Comp	1	X	X	X									
7	CS-7 (5.5)	3/27/2025		X		Comp	1	X	X	X									
8	CS-8 (5.5)	3/27/2025		X		Comp	1	X	X	X									
9	CS-9 (5.5)	3/27/2025		X		Comp	1	X	X	X									
10	CS-10 (5.5)	3/27/2025		X		Comp	1	X	X	X									

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <u>Kevin Lopez</u>	<u>APR 2025</u>	3/28/25/1537			2
3		APR 2, 2025			4
5					6



Work Order No: 11251828

**Work Order Comments**

**Program:** UST/PST ☐ PRP ☐ Brownfields ☐ RCC ☐ upfund ☐

**State of Project:**

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

**Deliverables:** EDD ☐ ADAPT ☐ Other:

Please send results to [cmoehring@carmonaresources.com](mailto:cmoehring@carmonaresources.com) and [mcarmona@carmonaresources.com](mailto:mcarmona@carmonaresources.com)

Revised Date 05/01/2020 Rev. 2020.1



Chain of Custody

Work Order No: 11251828

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Benson Shugart Unit #23	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	2412	Due Date:	24 Hour Rush		
Project Location:	Eddy Co. NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	KR				
PO #:					
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	#114		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	CH3		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	4.7°C		
Total Containers:		Corrected Temperature:	5.0°C		

Sample Identification					Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH										Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Tom Payne</i>	<i>APC</i>	3-27-25/1537			
3					
5					



Work Order No: HA51828

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Revised Date 05012020 Rev. 2020.



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

---

April 01, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BENSON SHUGART UNIT #23

Enclosed are the results of analyses for samples received by the laboratory on 03/31/25 16:47.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/31/2025  
 Reported: 04/01/2025  
 Project Name: BENSON SHUGART UNIT #23  
 Project Number: 2412  
 Project Location: EDDY CO NM

Sampling Date: 03/28/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 10 ( 5.75' ) (H251893-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.12	106	2.00	4.01	
Toluene*	<0.050	0.050	03/31/2025	ND	2.16	108	2.00	4.31	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.10	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	6.18	103	6.00	4.18	
Total BTEX	<0.300	0.300	03/31/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/01/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	214	107	200	1.55	
DRO >C10-C28*	<10.0	10.0	03/31/2025	ND	210	105	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	03/31/2025	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.6 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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---

### 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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



Work Order No: 4951893

ANALYSIS REQUEST						Preservative Codes	
<b>Project Name:</b>	Benson Shugart Unit #23	<b>Turn Around</b>		<b>Pres. Code</b>			
<b>Project Number:</b>	2412	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush				None: NO DI Water: H <sub>2</sub> O
<b>Project Location</b>	Eddy Co., NM	<b>Due Date:</b>	24 Hour Rush				Cool: Cool MeOH: Me HCL: HC HNO <sub>3</sub> : HN H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na
<b>Sampler's Name:</b>	KR	TAT starts the day received by the lab, if received by 4:30pm					H <sub>3</sub> PO <sub>4</sub> : HP
<b>PO #:</b>							
<b>SAMPLE RECEIPT</b>		<b>Temp Blank:</b>	Yes No	<b>Wet Ice:</b>	Yes No	<b>HOLD</b>	
<b>Received Intact:</b>	Yes No	<b>Thermometer ID:</b>	#148				NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
<b>Cooler Custody Seals:</b>	Yes No	<b>Correction Factor:</b>	+0.3°C				Zn Acetate+NaOH: Zn
<b>Sample Custody Seals:</b>	Yes No	<b>Temperature Reading:</b>	N/A				NaOH+Ascorbic Acid: SANC
<b>Total Containers:</b>		<b>Corrected Temperature:</b>	39.2				
<b>Parameters</b>							
BTEX 8021B							
H 8015M ( GRO + DRO + MRO)							
Chloride 4500							

[illegible]





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---

April 01, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BENSON SHUGART UNIT #23

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

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Celey D. Keene

Lab Director/Quality Manager



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**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 #23  
 Project Number: 2412  
 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 (H251892-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.12	106	2.00	4.01	
Toluene*	<0.050	0.050	03/31/2025	ND	2.16	108	2.00	4.31	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.10	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	6.18	103	6.00	4.18	
Total BTX	<0.300	0.300	03/31/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/01/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	214	107	200	1.55	
DRO >C10-C28*	<10.0	10.0	03/31/2025	ND	210	105	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	03/31/2025	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager

Work Order No: 11251898

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ brownfields ☐ RRC ☐ upfund ☐

State of Project:

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

Deliverables: EDD ☐ ADAPT ☐ Other:

Revised Date 05/01/2020 Rev. 2020.1

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 461226

**QUESTIONS**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 461226
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nMCS0124832969
Incident Name	NMCS0124832969 BENSON SHUGART WATERFLOOD UNIT #23 @ 30-015-04544
Incident Type	Other
Incident Status	Reclamation Report Received
Incident Well	[30-015-04544] BENSON SHUGART WATERFLOOD UNIT #023

**Location of Release Source**

Please answer all the questions in this group.

Site Name	Benson Shugart Waterflood Unit #23
Date Release Discovered	07/05/2001
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Injection   Produced Water   Released: 333 BBL   Recovered: 0 BBL   Lost: 333 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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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 461226

**QUESTIONS (continued)**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 461226
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/13/2025
--	---

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QUESTIONS, Page 3

Action 461226

**QUESTIONS (continued)**

Operator:  CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:  4323
	Action Number:  461226
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	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 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1860
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	399
GRO+DRO (EPA SW-846 Method 8015M)	399
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/25/2024
On what date will (or did) the final sampling or liner inspection occur	03/27/2025
On what date will (or was) the remediation complete(d)	12/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	40000
What is the estimated volume (in cubic yards) that will be reclaimed	853
What is the estimated surface area (in square feet) that will be remediated	3900
What is the estimated volume (in cubic yards) that will be remediated	853
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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**Energy, Minerals and Natural Resources**  
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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 461226

**QUESTIONS (continued)**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 461226
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [FEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/13/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 461226

QUESTIONS (continued)

Operator:  CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:  4323
	Action Number:  461226
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 461226

**QUESTIONS (continued)**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 461226
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	444990
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/27/2025
What was the (estimated) number of samples that were to be gathered	28
What was the sampling surface area in square feet	3900

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3900
What was the total volume (cubic yards) remediated	853
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	40000
What was the total volume (in cubic yards) reclaimed	853
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).
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/13/2025



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QUESTIONS, Page 7

Action 461226

**QUESTIONS (continued)**

Operator:  CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:  4323
	Action Number:  461226
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	40000
What was the total volume of replacement material (in cubic yards) for this site	1482
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	04/18/2025
Summarize any additional reclamation activities not included by answers (above)	Site assesment completed, excavated and remedated areas that exceeded set in Table 1of NMAC 19.15.29.12/13. Backfilled with clean topsoil (lab confirmed). Reseeded with BLM #2 LPC seed mix and reclaimed and ripped to promote seed growth via hand distribution.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/13/2025

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QUESTIONS, Page 8  
  
Action 461226

QUESTIONS (continued)

Operator:  CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:  4323
	Action Number:  461226
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 461226

**CONDITIONS**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 461226
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	The remediation and reclamation closure for the site is approved.	6/27/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	6/27/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/27/2025