



SITE INFORMATION

Closure Report
Raptor West 3 State 2H
Lea County, New Mexico
Incident ID: nAPP2327550031
Unit P Sec 03 T19S R34E
32.6830063°, -103.542717°

Crude Oil
Point of Release: Failed Sight Glass on Separator
Release Date: 10/02/23
Volume Released: 136.8 Barrels of Crude Oil
Volume Recovered: 130 Barrels of Crude Oil

CARMONA RESOURCES



Prepared for:
Marathon Oil Corporation
990 Town and Country Blvd,
Houston, Texas 77024

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



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November 2, 2023

New Mexico Oil Conservation Division
1220 South St, Francis Drive
Santa Fe, NM 87505

**Re: Closure Report
Raptor West 3 State 2H
Marathon Oil Corporation
Incident ID: nAPP2327550031
Site Location: Unit P, S03, T19S, R34E
(Lat 32.6830063°, Long -103.542717°)
Lea County, New Mexico**

To whom it may concern:

On behalf of Marathon Oil Company, Carmona Resources, LLC has prepared this letter to document site activities for the Raptor West 3 State 2H. The site is located at 32.6830063°, -103.542717° within Unit P, S03, T19S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on October 2, 2023, caused by a sight glass failure on the separator. The incident released one hundred thirty-six point eight (136.8) barrels of crude oil, with one hundred thirty (130) barrels recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, two known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.12 miles northwest of the site in S03, T19S, R34E, and was drilled in 1981. The well has a reported depth to groundwater of 104.90' 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 Liner Inspection/Site Assessment Activities

Liner Inspection

On October 10, 2023, Carmona Resources, LLC conducted liner inspection activities to assess the liner's integrity within the facility. Before performing the liner inspection, the NMOCD division office was notified via email on October 6, 2023, and November 3, 2023, per Subsection D of 19.15.29.12 NMAC.

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See Appendix C. Carmona Resources, LLC personnel inspected the liner visually and found it intact with no integrity issues. Refer to the Photolog.

Initial Assessment

On October 10, 2023, Carmona Resources, LLC was onsite to perform an initial assessment to evaluate soil impacts stemming from the release. A total of eight (8) sample points (S-1 through S-8) and eight (8) horizontal samples (H-1 through H-8) were advanced to depths ranging from the surface to 2' bgs within and surrounding the release to assess the vertical and horizontal extent. 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. See Table 1 for the analytical results.

Vertical Delineation

Vertical delineation was achieved for all sample points. Refer to Table 1.

Horizontal Delineation

All horizontal locations were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

5.0 Remediation Activities/ In-Situ Remediation

Remediation Activities

Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on January 5, 2024, and January 16, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. After all hazards were identified, the area of S-4 was excavated to a depth of 1.5' below the surface, and the areas of S-1 through S-3 were excavated to a depth of 2.0' below the surface to remove all the impacted soils. A total of fifty (50) floor confirmation samples were collected (CS-1 through CS-50), and sixteen (16) sidewall samples (SW-1 through SW-16) were collected every 500 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

Confirmation samples CS-36, CS-37, CS-38, CS-39, CS-40, CS-48, and CS-50 continued to show elevated TPH levels and were excavated an additional 0.25' to remove contaminated soil.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 980 cubic yards of material were excavated and transported offsite for proper disposal.

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In-Situ Remediation

Carmona Resources personnel were on site to guide the in-situ remediation activities within the pasture. The areas of S-7 and S-8 were treated with a Micro-Blaze solution. To ensure homogenization, Carmona Resources personnel will re-collect samples on April 1, 2024.

6.0 Conclusions

Upon collection of the samples in the pasture area showing homogenization has been achieved, a final closure report describing the remediation activities will be presented to the New Mexico Oil Conservation Division (NMOCD). If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,
Carmona Resources, LLC

Clinton Merritt
Sr. Project Manager

Devin Dominguez
Sr. Project Manager

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FIGURES

CARMONA RESOURCES





OVERVIEW MAP
MARATHON OIL CORPORATION
RAPTOR WEST 3 STATE 2H
LEA COUNTY, NEW MEXICO
32.6830063°, -103.542717°



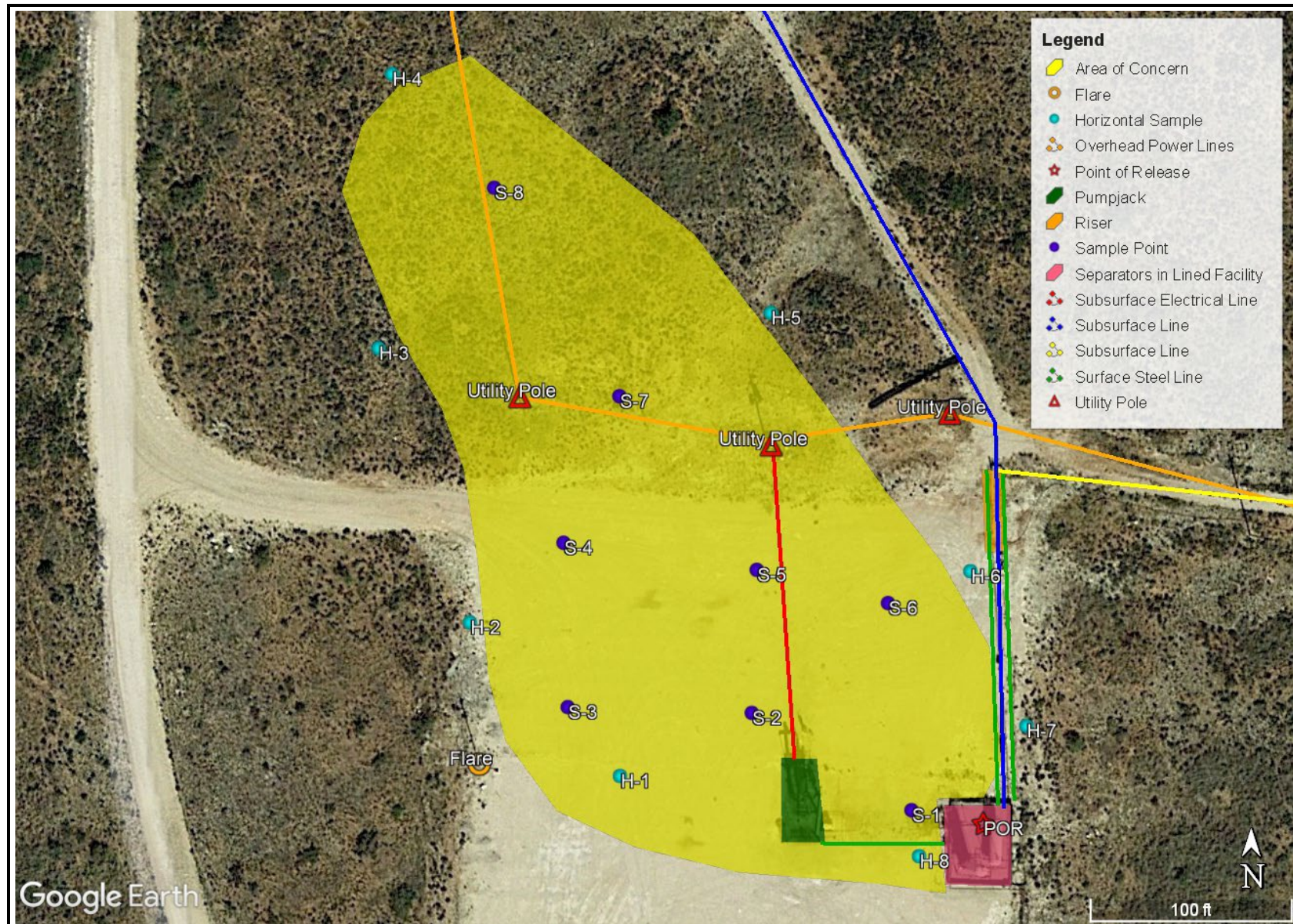
FIGURE 1



TOPOGRAPHIC MAP
 MARATHON OIL CORPORATION
 RAPTOR WEST 3 STATE 2H
 LEA COUNTY, NEW MEXICO
 32.6830063°, -103.542717°



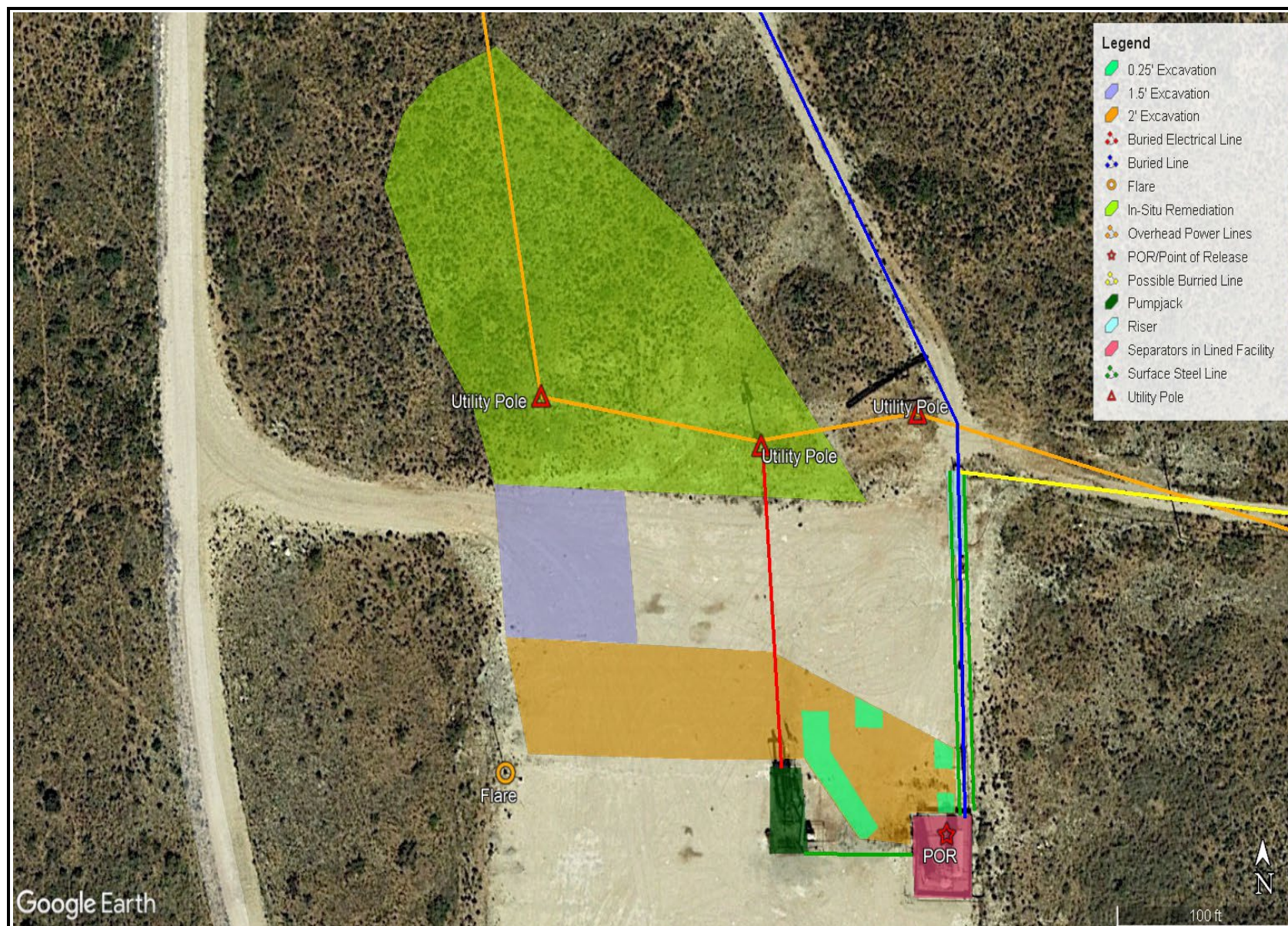
FIGURE 2



SAMPLE LOCATION MAP
 MARATHON OIL CORPORATION
 RAPTOR WEST 3 STATE 2H
 LEA COUNTY, NEW MEXICO
 32.6830063°, -103.542717°



FIGURE 3



EXCAVATION DEPTH MAP
 MARATHON OIL CORPORATION
 RAPTOR WEST 3 STATE 2H
 LEA COUNTY, NEW MEXICO
 32.6830063°, -103.542717°



FIGURE 4A



EXCAVATION DEPTH MAP
 MARATHON OIL CORPORATION
 RAPTOR WEST 3 STATE 2H
 LEA COUNTY, NEW MEXICO
 32.6830063°, -103.542717°



FIGURE 4B

APPENDIX A

CARMONA RESOURCES



Table 1
Marathon Oil Corporation
Raptor West 3 State 2H
Lea 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						
S-1	10/10/2023	0-1	<49.9	119	<49.9	119	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	392
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	986
	"	2	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	112
S-2	10/10/2023	0-1	<50.3	1,280	76.2	1,360	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,240
	"	1.5	<50.2	105	<50.2	105	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	833
	"	2	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	117
S-3	10/10/2023	0-1	<50.2	1,790	143	1,930	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	263
	"	1.5	<50.1	90.5	<50.1	90.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	995
	"	2	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	129
S-4	10/10/2023	0-1	<49.8	239	<49.8	239	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	211
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	133
	"	2	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	136
S-5	10/10/2023	0-1	<49.9	60.5	<49.9	60.5	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	112
	"	1.5	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	131
	"	2	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	126
S-6	10/10/2023	0-1	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	275
	"	1.5	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	124
	"	2	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	147
S-7	10/10/2023	0-1	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	158
	"	1.5	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	102
S-8	10/10/2023	0-1	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	104
	"	1.5	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	113
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

 Removed

Table 1
Marathon Oil Corporation
Raptor West 3 State 2H
Lea 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	10/10/2023	0-6"	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	87.5
H-2	10/10/2023	0-6"	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	77.8
H-3	10/10/2023	0-6"	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	79.4
H-4	10/10/2023	0-6"	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	104
H-5	10/10/2023	0-6"	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	91.5
H-6	10/10/2023	0-6"	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	95.9
H-7	10/10/2023	0-6"	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	100
H-8	10/10/2023	0-6"	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	113
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(H) Horizontal Sample

Table 2
Marathon Oil Corporation
Raptor West 3 State #2H
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	1/9/2024	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	33.8
CS-2	1/9/2024	1.5	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	25.3
CS-3	1/9/2024	1.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	41.6
CS-4	1/9/2024	1.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	39.2
CS-5	1/9/2024	1.5	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	46.8
CS-6	1/9/2024	1.5	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	43.4
CS-7	1/9/2024	1.5	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	37.2
CS-8	1/9/2024	1.5	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	36.5
CS-9	1/9/2024	1.5	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	36.0
CS-10	1/9/2024	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	35.5
CS-11	1/9/2024	1.5	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	34.2
CS-12	1/9/2024	1.5	<50.2	<50.2	<50.2	<50.2	0.0444	<0.00200	<0.00200	<0.00401	0.0444	36.6
CS-13	1/9/2024	2.0	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	38.7
CS-14	1/9/2024	2.0	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	37.7
CS-15	1/9/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	37.6
CS-16	1/9/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	40.2
CS-17	1/9/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	42.0
CS-18	1/9/2024	2.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	42.2
CS-19	1/9/2024	2.0	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	41.7
CS-20	1/9/2024	2.0	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	36.1
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed
^A – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft-feet
(CS) Confirmation Sample
 Removed

Table 2
Marathon Oil Corporation
Raptor West 3 State #2H
Lea 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-21	1/9/2024	2.0	<49.8	<49.8	<49.8	<49.8	0.00310	<0.00199	<0.00199	<0.00398	0.00548	46.2
CS-22	1/9/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	42.1
CS-23	1/9/2024	2.0	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	44.9
CS-24	1/9/2024	2.0	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	45.7
CS-25	1/9/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.8
CS-26	1/9/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	31.8
CS-27	1/9/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	34.9
CS-28	1/9/2024	2.0	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	42.2
CS-29	1/9/2024	2.0	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	28.2
CS-30	1/9/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.4
CS-31	1/9/2024	2.0	<50.4	<50.4	<50.4	<50.4	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	55.8
CS-32	1/9/2024	2.0	<49.6	65.1	<49.6	65.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	50.4
CS-33	1/9/2024	2.0	<49.6	51.8	<49.6	51.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	55.0
CS-34	1/9/2024	2.0	<50.3	57.1	<50.3	57.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	61.7
CS-35	1/9/2024	2.0	<50.1	60.8	<50.1	60.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	66.7
	1/18/2024	2.25	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.50
CS-36	1/9/2024	2.0	<50.4	195	<50.4	195	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	83.7
	1/18/2024	2.25	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8.92
CS-37	1/9/2024	2.0	<50.2	248	<50.2	248	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	101
	1/18/2024	2.25	<50.4	<50.4	<50.4	<50.4	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	11.8
CS-38	1/9/2024	2.0	<49.7	105	<49.7	105	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	84.6
	1/18/2024	2.25	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	8.06
CS-39	1/9/2024	2.0	<50.0	321	<50.0	321	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	99.2
	1/18/2024	2.25	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.14
CS-40	1/9/2024	2.0	<49.7	172	<49.7	172	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	91.9
	1/18/2024	2-2.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.62
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

Removed

Table 2
Marathon Oil Corporation
Raptor West 3 State #2H
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-41	1/9/2024	2.0	<50.4	80.8	<50.4	80.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	83.1
CS-42	1/9/2024	2.0	<49.8	91.3	<49.8	91.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	98.4
CS-43	1/9/2024	2.0	<50.0	82.6	<50.0	82.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	73.1
CS-44	1/9/2024	2.0	<50.2	95.9	<50.2	95.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	84.2
CS-45	1/9/2024	2.0	<50.1	92.9	<50.1	92.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	90.2
CS-46	1/9/2024	2.0	<50.4	76.3	<50.4	76.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	100
CS-47	1/9/2024	2.0	<49.7	94.6	<49.7	94.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	84.7
CS-48	1/9/2024	2.0	<49.9	101	<49.9	101	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	78.9
	1/18/2024	2.25	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	5.43
CS-49	1/9/2024	2.0	<50.0	68.9	<50.0	68.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	74.9
CS-50	1/9/2024	2.0	<50.3	134	<50.3	134	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	101
	1/18/2024	2.25	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6.67
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

 Removed

Table 2
Marathon Oil Corporation
Raptor West 3 State #2H
Lea 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						
SW-1	1/9/2024	1.5	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	93.3
SW-2	1/9/2024	1.5	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	100
SW-3	1/9/2024	1.5	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	69.7
SW-4	1/9/2024	0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	96.8
SW-5	1/9/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	78.6
SW-6	1/9/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	97.0
SW-7	1/9/2024	2.0	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	81.9
SW-8	1/9/2024	2.0	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	89.1
SW-9	1/9/2024	2.0	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	82.3
SW-10	1/9/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	96.0
SW-11	1/9/2024	2.0	<49.9	64.1	<49.9	64.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	79.2
SW-12	1/9/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	6.24
SW-13	1/9/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6.83
SW-14	1/9/2024	2.0	<49.9	76.1	<49.9	76.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	82.3
SW-15	1/9/2024	2.0	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.04
SW-16	1/9/2024	2.0	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	5.44
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons
ft-feet

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 1****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**
View East of lined facility.**Photograph No. 2****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**
View East of lined facility.**Photograph No. 3****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**
View Northwest of lined facility.

PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 4****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**

View North, Micro-Blaze area of S-7.

**Photograph No. 5****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**

View North, Micro-Blaze area of S-8.

**Photograph No. 6****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**

View North, Micro-Blaze area of S-7 through S-8.

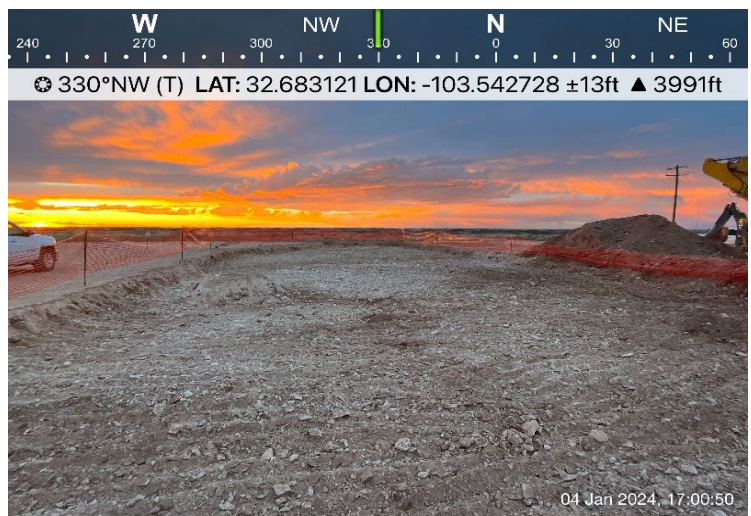


PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 7****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**

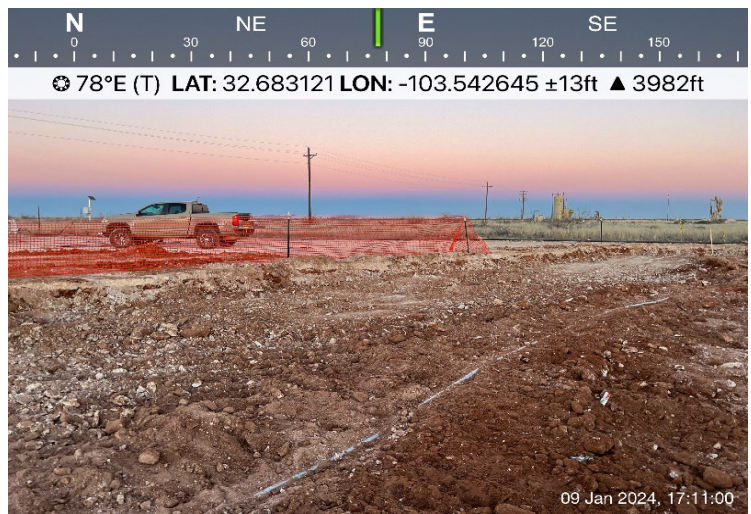
View Southwest, area of CS-1 through CS-12.

**Photograph No. 8****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**

View Northwest, area of CS-13 through CS-30.

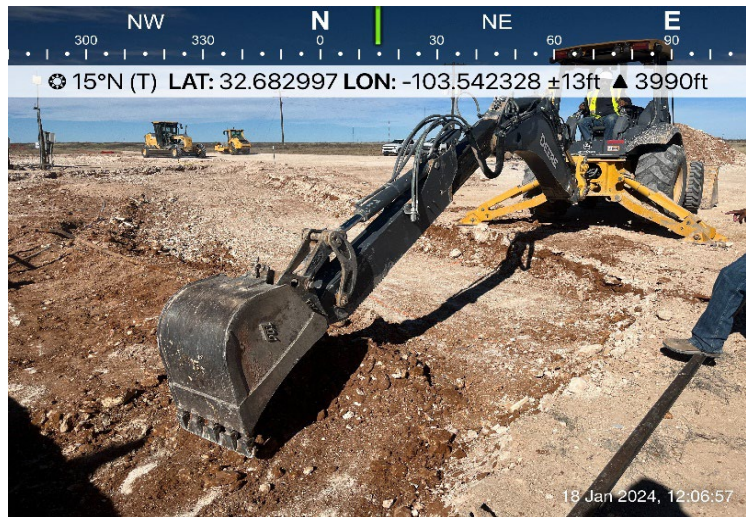
**Photograph No. 9****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**

View East, area of CS-31 through CS-50.

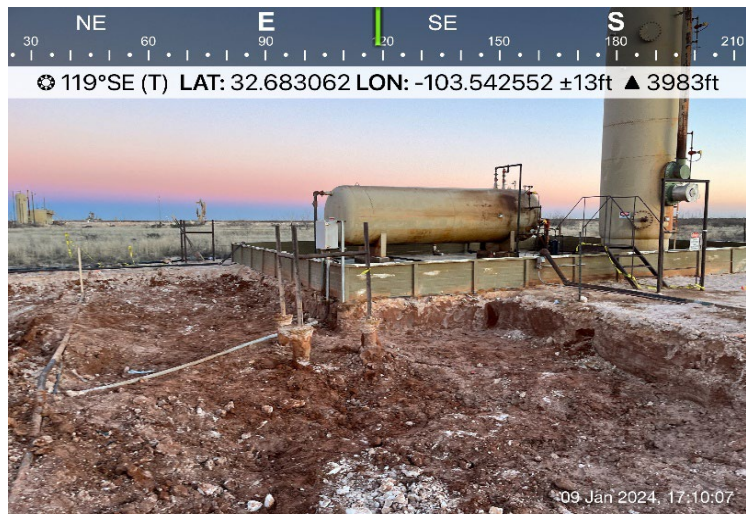


PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 10****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**

View North, area of CS-31 through CS-50.

**Photograph No. 11****Facility:** Raptor West 3 State 2H**County:** Lea County, New Mexico**Description:**

View Southeast, area of CS-42 through CS-50.



APPENDIX C

CARMONA RESOURCES



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2327550031
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

Latitude 32.6830063 Longitude -103.542717
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Raptor West 3 State 2H	Site Type Oil & Gas Facility
Date Release Discovered: 10/2/2023	API# (if applicable) 30-025-41186

Unit Letter	Section	Township	Range	County
P	03	19S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 136.8	Volume Recovered (bbls) 130
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

HES tech arrived on location to an active leak/overspray from a failed sight glass on the separator. The source of the leak has been isolated and standing fluids are being recovered from the separator’s secondary containment.

130 bbl. of fluid within the lined, secondary containment.
4.97 bbl. of dark overspray on the pad and approx.
1.88 bbl. of light overspray in the pasture to the North of the pad.

Standing fluid is actively being recovered and the impacted areas remediated.

Incident ID	nAPP2327550031
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes – NOR submitted 10/2	

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. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: <u>Melodie Sanjari</u>	Title: <u>Environmental Professional</u>
Signature: <u>Melodie Sanjari</u>	Date: <u>10/6/2023</u>
email: <u>msanjari@marathonoil.com</u>	Telephone: <u>575-988-8753</u>
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>10/6/2023</u>

MRO Spill Calculation Tool

Standing Liquid Inputs:

	Length (ft.)	Width (ft.)	Avg. Liquid Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Inherent - From Vac Ticket					130.00	130.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Liquid Volume:					130.00	130.00	0.00

Saturated Soil Inputs:

Soil Type: Gravel Loam

	Length (ft.)	Width (ft.)	Avg. Saturated Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Pad	100	160	0.0625		2.37	2.37	0.00
Pad	50	100	0.25		2.60	2.60	0.00
Pasture	156	93	0.0625		1.88	1.88	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Rectangle Area #7					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
Saturated Volume					6.86	6.86	0.00

	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Total Spill Volume (bbls):	136.86	136.86	0.00
Total Spill Volume (gals):	5747.97	5747.97	0.00

Comments:

Color Key:

Required Input Cells

Supplemental Input Cells

No Input (Calculations)

No Input

Ground/Vegetation Overspray

Cover Type	Microns	Approximate Depth (in)
Ground		
Dull Color	10	0.00003281
Dark Color	50	0.00016404



CC: 29517900
43611
PO Box 1253
Lovington, NM 88260
Office (575) 396-0934
Fax (575) 396-0449
Email dukeoilfieldllc@gmail.com

Oil _____
Disposal _____
Salt Water _____
Fresh Water _____

DATE: 10-2-23

COMPANY: Marathon

RIG: _____

LEASE: Haptor West 3 state 2H ORDER BY: James Guyard

Description of Service	Hours
Drive to yard to location and Back	
hauled 5 bbls of waste water to disposal and wash out truck	
Work In location clean split and transfer 130 bbls crude oil in same location	

Work done by: Daniel Cervantes Unit #: 123

Accepted:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 273218

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 273218
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/6/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 02/21/2024

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	300342	Districts:	Hobbs
Operator:	[372098] MARATHON OIL PERMIAN LLC	Counties:	Lea
Description:	MARATHON OIL PERMIAN LLC [372098] , RAPTOR 2H , nAPP2327550031		
Status:	APPROVED		
Status Date:	01/05/2024		
References (2):	30-025-41186, nAPP2327550031		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2327550031
Incident Name	NAPP2327550031 RAPTOR 2H @ 30-025-41186
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-025-41186] RAPTOR WEST 3 STATE #002H

Surface Owner	State
---------------	-------

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet

19,667

What is the estimated number of samples that will be gathered

55

Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC

01/09/2024

Time sampling will commence

01:00 PM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers

Carmona Resources - Fabian Vargas - 432-813-5309

Please provide any information necessary for navigation to sampling site

From the intersection of NM 529 & CR 55 (Aquila Ln.), travel northwest on NM 529 for 2.45 miles. Turn left (south) onto unmarked lease road and travel 2.0 miles. Turn left (east) onto unmarked lease road and travel 0.40 miles. Turn right (south) onto unmarked lease road and travel 0.54 miles. Turn left (east) onto unmarked lease road and travel 0.03 miles. Jobsite is on the immediate left.

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary:

icastro (1/5/2024), 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.

Searches Operator Data Hearing Fee Application

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EMNRD Home OCD Main Page OCD Rules Help

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	303860	Districts:	Hobbs
Operator:	[372098] MARATHON OIL PERMIAN LLC	Counties:	Lea
Description:	MARATHON OIL PERMIAN LLC [372098] , RAPTOR 2H , nAPP2327550031		
Status:	APPROVED		
Status Date:	01/16/2024		
References (2):	30-025-41186, nAPP2327550031		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2327550031
Incident Name	NAPP2327550031 RAPTOR 2H @ 30-025-41186
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-025-41186] RAPTOR WEST 3 STATE #002H

Surface Owner	State
Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	19,667
What is the estimated number of samples that will be gathered	55
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/18/2024
Time sampling will commence	09:30 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Carmona Resources - Fabian Vargas - 432-813-5309
Please provide any information necessary for navigation to sampling site	From the intersection of NM 529 & CR 55 (Aquila Ln.), travel northwest on NM 529 for 2.45 miles. Turn left (south) onto unmarked lease road and travel 2.0 miles. Turn left (east) onto unmarked lease road and travel 0.40 miles. Turn right (south) onto unmarked lease road and travel 0.54 miles. Turn left (east) onto unmarked lease road and travel 0.03 miles. Jobsite is on the immediate left.
Acknowledgments	
This submission type does not have acknowledgments, at this time.	
Comments	
No comments found for this submission.	
Conditions	
Summary:	icastro (1/16/2024), 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.

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RE: Marathon Oil Company - Remediation Work Plan - **Raptor** West 3 State 2H - Approved



Knight, Tami C. <tknight@slo.state.nm.us>

12/15/2023 11:06 AM



To: Castro, Isaac (MRO); Sanjari, Melodie (MRO) Cc: Clint Merritt; Barnes, Will; Griffin, Becky R.; David, Deon W.

Isaac

Thank you for submitting the additional information requested for the subject remediation project. We will look for the remediation closure report in the near future. Please include any reclamation plans and monitoring of revegetation, where applicable, in the closure document.

Thank you

Note: NMSLO is closed December 25 – January 1. Workplans and Reports will not be processed during this time. Happy Holidays!



Tami Knight, CHMM
Environmental Specialist
SRD-Environmental
Compliance Office (ECO)
505.670.1638
New Mexico State Land Office
1300 W. Broadway Avenue, Suite A
Bloomfield, NM 87413
tknight@slo.state.nm.us
nmstatelands.org



PLEASE SUBMIT WORKPLANS AND REPORTS TO ECO@SLO.STATE.NM.US

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From: Sanjari, Melodie (MRO)
Received by OCD: 2/20/2024 5:21:52 PM
Sent: Friday, November 3, 2023 4:27 PM
To: 'SLO Spills' <spills@slo.state.nm.us>; eco@slo.state.nm.us
Cc: Castro, Isaac (MRO) <icastro@marathonoil.com>; 'Clint Merritt' <MerrittC@carmonaresources.com>
Subject: Marathon Oil Company - Remediation Work Plan - Raptor West 3 State 2H

Good Evening,

Please find the attached remediation work plan associated with the out of containment portion of incident nAPP2327550031. A liner integrity inspection will be included alongside the remediation closure report upon approval of the attached.

Thank you

Melodie Sanjari
Environmental Professional
Permian & Oklahoma
575-988-8753



From: Sanjari, Melodie (MRO)
Sent: Friday, October 6, 2023 11:16 AM
To: 'SLO Spills' <spills@slo.state.nm.us>; Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>
Cc: Castro, Isaac (MRO) <icastro@marathonoil.com>; Clint Merritt <MerrittC@carmonaresources.com>
Subject: Marathon Oil Company - Initial C141 & Liner Integrity Inspection - Raptor West 3 State 2H

Good Morning

Please find the attached Initial C141 for incident nAPP2327550031. Characterization will begin next Tuesday, 10/10, along with a liner integrity inspection of the containment as all standing fluid has been recovered and the containment pressure washed.

If you have any questions please don't hesitate to reach out.

Have a great weekend.

Melodie Sanjari
Environmental Professional
Permian & Oklahoma
575-988-8753



Released to Imaging: 2/21/2024 2:33:11 PM

APPENDIX D

CARMONA RESOURCES



Nearest water well

Marathon Oil Permian LLC

Legend

- 0.12 Miles
- 0.28 Miles
- 0.50 Mile Radius
- 1.08 Miles
- NMSEO Water Well
- Raptor West 3 State #2H (10.02.2023)
- USGS Water Well



3000 ft

Low Karst

Marathon Oil Permian LLC

Legend

Low

Raptor West 3 State #2H (10.02.2023)

Raptor West 3 State #2H (10.02.2023)



3000 ft



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD	Sub-Code	basin	County	Q Q Q					X	Y	Distance	Depth Well	Depth Water	Water Column	
	64				16	4	Sec	Tws	Rng							
L 04723	L	LE	1	1	1	11	19S	34E	637026	3616880*		450	145	123	22	
L 10347	L	LE	2	3	03	19S	34E	635909	3617566*		862	130				
L 12103 POD1	L	LE	3	3	4	02	19S	34E	637920	3617173		1298	120			
CP 00806 POD1	CP	LE	4	4	04	19S	34E	635109	3617151*		1516	50				
L 04995	L	LE	4	4	34	18S	34E	636700	3618828*		1745	179	105		74	
L 10380	L	LE	4	4	4	02	19S	34E	638428	3617102*		1804	153	100		53
L 11934 POD1	L	LE	3	3	4	35	18S	34E	637806	3618744*		2037	160	105		55
CP 00811 POD1	CP	LE	4	4	09	19S	34E	635132	3615542*		2145	50				
L 04059	L	LE	4	1	12	19S	34E	639146	3616412*		2609	125	60		65	
L 05851	L	LE	1	34	18S	34E	635681	3619816*		2890	240	85			155	
L 09576	L	LE	1	1	35	18S	34E	637082	3620041*		2992	180	130		50	
L 12633 POD1	L	LE	2	2	2	34	18S	34E	636852	3620203		3128	180	117		63
L 06731	L	LE	3	2	2	12	19S	34E	639844	3616727*		3239	120	80		40
L 10236	L	LE	3	3	27	18S	34E	635466	3620420*		3531					
L 10344 POD2	L	LE	3	3	27	18S	34E	635466	3620420*		3531	142	112		30	
L 10202	L	LE	4	4	28	18S	34E	635065	3620414*		3676	70	50		20	
L 03145	L	LE	1	1	07	19S	35E	640347	3616866*		3729	97	45		52	
L 04211	L	LE	1	3	06	19S	35E	640337	3617672*		3759	130	60		70	

Average Depth to Water: **90 feet**

Minimum Depth: **45 feet**

Maximum Depth: **130 feet**

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 636624

Northing (Y): 3617084

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.

10/4/23 6:49 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324103103323901

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

USGS 324103103323901 19S.34E.03.41213

Lea County, New Mexico
Latitude 32°41'03", Longitude 103°32'39" NAD27
Land-surface elevation 3,989 feet above NAVD88
This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measured)
1961-03-08			D 62610		3882.15	NGVD29	1		Z	
1961-03-08			D 62611		3883.81	NAVD88	1		Z	
1961-03-08			D 72019	105.19			1		Z	
1966-02-08			D 62610		3875.65	NGVD29	P		Z	
1966-02-08			D 62611		3877.31	NAVD88	P		Z	
1966-02-08			D 72019	111.69			P		Z	
1971-01-27			D 62610		3880.92	NGVD29	P		Z	
1971-01-27			D 62611		3882.58	NAVD88	P		Z	
1971-01-27			D 72019	106.42			P		Z	
1976-01-28			D 62610		3885.22	NGVD29	1		Z	
1976-01-28			D 62611		3886.88	NAVD88	1		Z	
1976-01-28			D 72019	102.12			1		Z	
1981-01-28			D 62610		3882.44	NGVD29	1		Z	
1981-01-28			D 62611		3884.10	NAVD88	1		Z	
1981-01-28			D 72019	104.90			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
Status	P	Pumping
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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[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2023-10-04 08:54:03 EDT
0.28 0.24 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)			
		(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec Tws Rng X Y
L	04723	1	1	1	11 19S 34E 637026 3616880*
Driller License: 137		Driller Company: ROBERTS, GRADY			
Driller Name:					
Drill Start Date: 09/22/1961		Drill Finish Date: 09/24/1961		Plug Date: 10/30/1961	
Log File Date: 10/16/1961		PCW Rcv Date:		Source: Shallow	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size: 6.63		Depth Well: 145 feet		Depth Water: 123 feet	
Water Bearing Stratifications:		Top	Bottom	Description	
		130	139	Sandstone/Gravel/Conglomerate	
		139	144	Sandstone/Gravel/Conglomerate	
		144	145	Sandstone/Gravel/Conglomerate	
Casing Perforations:		Top	Bottom		
		120	145		

*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.

10/4/23 6:50 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

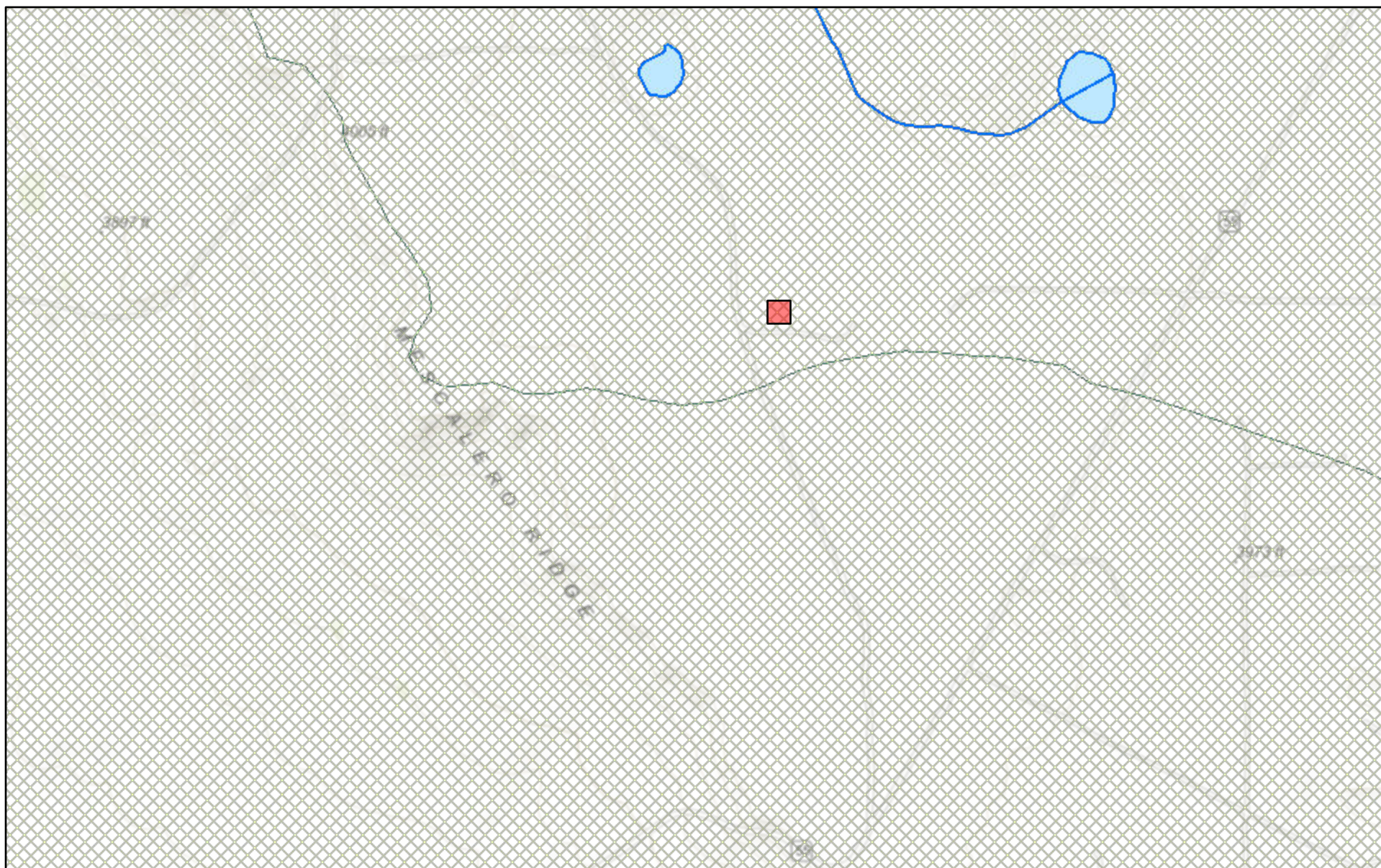
Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
	L 04995	4	4	34	18S	34E	636700	3618828*			
Driller License: 46		Driller Company:				ABBOTT BROTHERS COMPANY					
Driller Name:		MURRELL ABBOTT									
Drill Start Date:		10/21/1962		Drill Finish Date:			10/21/1962		Plug Date:		
Log File Date:		10/29/1962		PCW Rcv Date:			Source:			Shallow	
Pump Type:		Pipe Discharge Size:			Estimated Yield:						
Casing Size:		7.00		Depth Well:			179 feet		Depth Water:		105 feet
Water Bearing Stratifications:					Top	Bottom	Description				
					105	179	Sandstone/Gravel/Conglomerate				
Casing Perforations:					Top	Bottom					
					105	179					

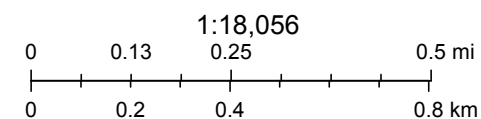
*UTM location was derived from PLSS - see Help

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New Mexico NFHL Data



October 4, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 10/16/2023 2:50:48 PM

JOB DESCRIPTION

Raptor West 3 State #2H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34311-1

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
10/16/2023 2:50:48 PM

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

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-34311-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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
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.
α	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/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

Job ID: 880-34311-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-34311-1**

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/11/2023 2:19 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 -7.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-34311-1), S-1 (1.5') (880-34311-2) and S-1 (2') (880-34311-3).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-34311-1) and S-1 (2') (880-34311-3). 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-1 (0-1') (880-34311-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-1 (2') (880-34311-3). 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64569 and analytical batch 880-64695 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 19:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 19:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 19:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 19:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 19:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	10/11/23 15:04	10/12/23 19:18	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	10/11/23 15:04	10/12/23 19:18	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			10/12/23 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	119		49.9		mg/Kg			10/12/23 13:30	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		10/11/23 15:46	10/12/23 13:30	1
Diesel Range Organics (Over C10-C28)	119		49.9		mg/Kg		10/11/23 15:46	10/12/23 13:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/23 15:46	10/12/23 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	10/11/23 15:46	10/12/23 13:30	1
o-Terphenyl	131	S1+	70 - 130	10/11/23 15:46	10/12/23 13:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		5.00		mg/Kg			10/15/23 15:58	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-34311-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 12:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 12:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 12:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 12:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 12:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	10/11/23 15:04	10/12/23 12:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/11/23 15:04	10/12/23 12:06	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-34311-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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			10/12/23 12:06	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			10/12/23 13:52	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		10/11/23 15:46	10/12/23 13:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 13:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				10/11/23 15:46	10/12/23 13:52	1
o-Terphenyl	129		70 - 130				10/11/23 15:46	10/12/23 13:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	986		5.00		mg/Kg			10/15/23 16:03	1

Client Sample ID: S-1 (2')

Lab Sample ID: 880-34311-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 12:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				10/11/23 15:04	10/12/23 12:26	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				10/11/23 15:04	10/12/23 12:26	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			10/12/23 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/12/23 14:14	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	<49.6	U	49.6		mg/Kg		10/11/23 15:46	10/12/23 14:14	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/11/23 15:46	10/12/23 14:14	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2')
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34311-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/11/23 15:46	10/12/23 14:14	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	131	S1+	70 - 130				10/11/23 15:46	10/12/23 14:14	1	
o-Terphenyl	141	S1+	70 - 130				10/11/23 15:46	10/12/23 14:14	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	112		4.99		mg/Kg			10/15/23 16:09	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

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)
880-34311-1	S-1 (0-1')	87	66 S1-
880-34311-1 MS	S-1 (0-1')	122	100
880-34311-1 MSD	S-1 (0-1')	115	104
880-34311-2	S-1 (1.5')	76	94
880-34311-3	S-1 (2')	87	69 S1-
LCS 880-64502/1-A	Lab Control Sample	128	109
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101
MB 880-64502/5-A	Method Blank	80	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34311-1	S-1 (0-1')	124	131 S1+
880-34311-2	S-1 (1.5')	120	129
880-34311-3	S-1 (2')	131 S1+	141 S1+
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 64523							Prep Batch: 64502		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130				10/11/23 15:04	10/12/23 11:23	1

Lab Sample ID: LCS 880-64502/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 64523							Prep Batch: 64502		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.07857		mg/Kg		79	70 - 130	
Toluene		0.100	0.07926		mg/Kg		79	70 - 130	
Ethylbenzene		0.100	0.09043		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene		0.200	0.1946		mg/Kg		97	70 - 130	
o-Xylene		0.100	0.09961		mg/Kg		100	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	128		70 - 130						
1,4-Difluorobenzene (Surr)	109		70 - 130						

Lab Sample ID: LCSD 880-64502/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 64523							Prep Batch: 64502			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.08430		mg/Kg		84	70 - 130	7	35
Toluene		0.100	0.07828		mg/Kg		78	70 - 130	1	35
Ethylbenzene		0.100	0.08874		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene		0.200	0.1787		mg/Kg		89	70 - 130	9	35
o-Xylene		0.100	0.1040		mg/Kg		104	70 - 130	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	128		70 - 130							
1,4-Difluorobenzene (Surr)	101		70 - 130							

Lab Sample ID: 880-34311-1 MS							Client Sample ID: S-1 (0-1')		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 64523							Prep Batch: 64502		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-1 MS
Matrix: Solid
Analysis Batch: 64523

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	122		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 880-34311-1 MSD
Matrix: Solid
Analysis Batch: 64523

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08499		mg/Kg		86	70 - 130	11	35
Toluene	<0.00200	U	0.0990	0.08138		mg/Kg		82	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.0990	0.08808		mg/Kg		89	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1873		mg/Kg		95	70 - 130	20	35
o-Xylene	<0.00200	U	0.0990	0.09482		mg/Kg		96	70 - 130	18	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-64505/1-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64505

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		10/11/23 15:46	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: LCS 880-64505/2-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	952.4		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	912.6		mg/Kg		91	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64505

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-64505/3-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	856.3		mg/Kg		86	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	786.7		mg/Kg		79	70 - 130	15	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-34290-A-4-E MS

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64505

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	994	1158		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	994	889.8		mg/Kg		87	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-34290-A-4-F MSD

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64505

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	994	1187		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	91		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A Matrix: Solid Analysis Batch: 64695										Client Sample ID: Method Blank Prep Type: Soluble		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<5.00	U	5.00		mg/Kg			10/15/23 15:18	1			

Lab Sample ID: LCS 880-64569/2-A Matrix: Solid Analysis Batch: 64695										Client Sample ID: Lab Control Sample Prep Type: Soluble		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride			250	274.9		mg/Kg		110	90 - 110			

Lab Sample ID: LCSD 880-64569/3-A Matrix: Solid Analysis Batch: 64695										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	273.8		mg/Kg		110	90 - 110	0	20	

Lab Sample ID: 880-34310-A-1-C MSD Matrix: Solid Analysis Batch: 64695										Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	104	F1	249	390.0	F1	mg/Kg		115	90 - 110	0	20	

Lab Sample ID: 880-34310-A-1-D MS Matrix: Solid Analysis Batch: 64695										Client Sample ID: Matrix Spike Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	104	F1	249	391.2	F1	mg/Kg		116	90 - 110			

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	5035	
880-34311-2	S-1 (1.5')	Total/NA	Solid	5035	
880-34311-3	S-1 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-34311-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	8021B	64502
880-34311-2	S-1 (1.5')	Total/NA	Solid	8021B	64502
880-34311-3	S-1 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	64502
880-34311-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	64502

Analysis Batch: 64675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-34311-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-34311-3	S-1 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-34311-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-34311-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	8015B NM	64505
880-34311-2	S-1 (1.5')	Total/NA	Solid	8015B NM	64505
880-34311-3	S-1 (2')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-34311-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-34311-3	S-1 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-34311-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-34311-3	S-1 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34310-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-34310-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34311-1	S-1 (0-1')	Soluble	Solid	300.0	64569
880-34311-2	S-1 (1.5')	Soluble	Solid	300.0	64569
880-34311-3	S-1 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34310-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64569
880-34310-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	64569

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64675	10/12/23 19:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			64714	10/12/23 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 15:58	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-34311-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 12:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64675	10/12/23 12:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			64714	10/12/23 13:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 13:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:03	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-34311-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64675	10/12/23 12:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			64714	10/12/23 14:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 14:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:09	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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

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

Method Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-34311-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34311-1	S-1 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34311-2	S-1 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34311-3	S-1 (2')	Solid	10/10/23 00:00	10/11/23 14:19

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- 14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34311-1

SDG Number: Lea County, New Mexico

Login Number: 34311

List Number: 1

Creator: Rodriguez, Leticia

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.	N/A	
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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 10/16/2023 2:51:13 PM

JOB DESCRIPTION

Raptor West 3 State #2H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34312-1

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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10/16/2023 2:51:13 PM

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

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-34312-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
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/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

Job ID: 880-34312-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-34312-1**

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/11/2023 2:19 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 -7.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-2 (0-1') (880-34312-1), S-2 (1.5') (880-34312-2) and S-2 (2') (880-34312-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34311-A-1-C). 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-2 (1.5') (880-34312-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-64518 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-64518/47).

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64569 and analytical batch 880-64695 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-34312-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 12:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 12:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 12:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/23 15:04	10/12/23 12:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 12:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/23 15:04	10/12/23 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	10/11/23 15:04	10/12/23 12:47	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/11/23 15:04	10/12/23 12:47	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			10/12/23 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1360		50.3		mg/Kg			10/12/23 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/11/23 15:46	10/12/23 14:58	1
Diesel Range Organics (Over C10-C28)	1280		50.3		mg/Kg		10/11/23 15:46	10/12/23 14:58	1
Oil Range Organics (Over C28-C36)	76.2		50.3		mg/Kg		10/11/23 15:46	10/12/23 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	10/11/23 15:46	10/12/23 14:58	1
o-Terphenyl	99		70 - 130	10/11/23 15:46	10/12/23 14:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		4.98		mg/Kg			10/15/23 16:26	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-34312-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 13:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 13:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 13:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 13:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 13:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	10/11/23 15:04	10/12/23 13:07	1
1,4-Difluorobenzene (Surr)	82		70 - 130	10/11/23 15:04	10/12/23 13:07	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-34312-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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			10/12/23 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	105		50.2		mg/Kg			10/12/23 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		10/11/23 15:46	10/12/23 15:42	1
Diesel Range Organics (Over C10-C28)	105		50.2		mg/Kg		10/11/23 15:46	10/12/23 15:42	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		10/11/23 15:46	10/12/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				10/11/23 15:46	10/12/23 15:42	1
o-Terphenyl	132	S1+	70 - 130				10/11/23 15:46	10/12/23 15:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	833		5.02		mg/Kg			10/15/23 16:32	1

Client Sample ID: S-2 (2')

Lab Sample ID: 880-34312-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 13:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				10/11/23 15:04	10/12/23 13:28	1
1,4-Difluorobenzene (Surr)	93		70 - 130				10/11/23 15:04	10/12/23 13:28	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			10/12/23 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/12/23 16:04	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	<49.9	U	49.9		mg/Kg		10/11/23 15:46	10/12/23 16:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/11/23 15:46	10/12/23 16:04	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2')
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34312-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/23 15:46	10/12/23 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				10/11/23 15:46	10/12/23 16:04	1
o-Terphenyl	122		70 - 130				10/11/23 15:46	10/12/23 16:04	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.03		mg/Kg			10/15/23 16:37	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

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)
880-34311-A-1-A MS	Matrix Spike	122	100
880-34311-A-1-B MSD	Matrix Spike Duplicate	115	104
880-34312-1	S-2 (0-1')	113	108
880-34312-2	S-2 (1.5')	81	82
880-34312-3	S-2 (2')	83	93
LCS 880-64502/1-A	Lab Control Sample	128	109
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101
MB 880-64502/5-A	Method Blank	80	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34312-1	S-2 (0-1')	99	99
880-34312-2	S-2 (1.5')	124	132 S1+
880-34312-3	S-2 (2')	107	122
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	80		70 - 130	10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/11/23 15:04	10/12/23 11:23	1

Lab Sample ID: LCS 880-64502/1-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.07857		mg/Kg		79	70 - 130
Toluene	0.100	0.07926		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.09043		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09961		mg/Kg		100	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-64502/2-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.08430		mg/Kg		84	70 - 130	7	35
Toluene	0.100	0.07828		mg/Kg		78	70 - 130	1	35
Ethylbenzene	0.100	0.08874		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	9	35
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	4	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-34311-A-1-A MS

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-A-1-A MS
Matrix: Solid
Analysis Batch: 64523

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	122		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 880-34311-A-1-B MSD
Matrix: Solid
Analysis Batch: 64523

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08499		mg/Kg		86	70 - 130	11	35
Toluene	<0.00200	U	0.0990	0.08138		mg/Kg		82	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.0990	0.08808		mg/Kg		89	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1873		mg/Kg		95	70 - 130	20	35
o-Xylene	<0.00200	U	0.0990	0.09482		mg/Kg		96	70 - 130	18	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-64505/1-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64505

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		10/11/23 15:46	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: LCS 880-64505/2-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	952.4		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	912.6		mg/Kg		91	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64505

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-64505/3-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	856.3		mg/Kg		86	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	786.7		mg/Kg		79	70 - 130	15	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-34290-A-4-E MS

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64505

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	994	1158		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	994	889.8		mg/Kg		87	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-34290-A-4-F MSD

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64505

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	994	1187		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	91		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/15/23 15:18	1

Lab Sample ID: LCS 880-64569/2-A

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.9		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-64569/3-A

Matrix: Solid

Analysis Batch: 64695

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	273.8		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-34310-A-1-C MSD

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	104	F1	249	390.0	F1	mg/Kg		115	90 - 110	0	20

Lab Sample ID: 880-34310-A-1-D MS

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	104	F1	249	391.2	F1	mg/Kg		116	90 - 110

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	5035	
880-34312-2	S-2 (1.5')	Total/NA	Solid	5035	
880-34312-3	S-2 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	8021B	64502
880-34312-2	S-2 (1.5')	Total/NA	Solid	8021B	64502
880-34312-3	S-2 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64502
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64502

Analysis Batch: 64676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-34312-2	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-34312-3	S-2 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-34312-2	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-34312-3	S-2 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	8015B NM	64505
880-34312-2	S-2 (1.5')	Total/NA	Solid	8015B NM	64505
880-34312-3	S-2 (2')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

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QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-34312-2	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-34312-3	S-2 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Soluble	Solid	DI Leach	
880-34312-2	S-2 (1.5')	Soluble	Solid	DI Leach	
880-34312-3	S-2 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34310-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-34310-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34312-1	S-2 (0-1')	Soluble	Solid	300.0	64569
880-34312-2	S-2 (1.5')	Soluble	Solid	300.0	64569
880-34312-3	S-2 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34310-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64569
880-34310-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	64569

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-34312-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 12:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64676	10/12/23 12:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			64716	10/12/23 14:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 14:58	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:26	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-34312-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64676	10/12/23 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			64716	10/12/23 15:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 15:42	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:32	CH	EET MID

Client Sample ID: S-2 (2')

Lab Sample ID: 880-34312-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64676	10/12/23 13:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			64716	10/12/23 16:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 16:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:37	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 12
- 13
- 14

Method Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-34312-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34312-1	S-2 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34312-2	S-2 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34312-3	S-2 (2')	Solid	10/10/23 00:00	10/11/23 14:19

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34312-1

SDG Number: Lea County, New Mexico

Login Number: 34312

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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.	N/A	
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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 10/16/2023 2:52:04 PM

JOB DESCRIPTION

Raptor West 3 State #2H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34313-1

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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10/16/2023 2:52:04 PM

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

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-34313-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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
SQL	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/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

Job ID: 880-34313-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-34313-1**

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/11/2023 2:19 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 -7.6°C

Receipt Exceptions**GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34311-A-1-C). 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.

GC Semi VOA

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-64518 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-64518/47).

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (0-1')

Lab Sample ID: 880-34313-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 13:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 13:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 13:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/11/23 15:04	10/12/23 13:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/11/23 15:04	10/12/23 13:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/12/23 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1930		50.2		mg/Kg			10/12/23 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		10/11/23 15:46	10/12/23 14:36	1
Diesel Range Organics (Over C10-C28)	1790		50.2		mg/Kg		10/11/23 15:46	10/12/23 14:36	1
Oil Range Organics (Over C28-C36)	143		50.2		mg/Kg		10/11/23 15:46	10/12/23 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	10/11/23 15:46	10/12/23 14:36	1
o-Terphenyl	101		70 - 130	10/11/23 15:46	10/12/23 14:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263		5.05		mg/Kg			10/15/23 16:43	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-34313-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 14:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 14:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	10/11/23 15:04	10/12/23 14:09	1
1,4-Difluorobenzene (Surr)	74		70 - 130	10/11/23 15:04	10/12/23 14:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-34313-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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			10/12/23 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.5		50.1		mg/Kg			10/12/23 16:26	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		10/11/23 15:46	10/12/23 16:26	1
Diesel Range Organics (Over C10-C28)	90.5		50.1		mg/Kg		10/11/23 15:46	10/12/23 16:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/11/23 15:46	10/12/23 16:26	1
o-Terphenyl	111		70 - 130				10/11/23 15:46	10/12/23 16:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	995		5.04		mg/Kg			10/15/23 16:48	1

Client Sample ID: S-3 (2')

Lab Sample ID: 880-34313-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 14:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/23 15:04	10/12/23 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/11/23 15:04	10/12/23 14:29	1
1,4-Difluorobenzene (Surr)	72		70 - 130				10/11/23 15:04	10/12/23 14:29	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			10/12/23 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/12/23 16:48	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	<50.5	U	50.5		mg/Kg		10/11/23 15:46	10/12/23 16:48	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/11/23 15:46	10/12/23 16:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (2')
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34313-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/11/23 15:46	10/12/23 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				10/11/23 15:46	10/12/23 16:48	1
o-Terphenyl	116		70 - 130				10/11/23 15:46	10/12/23 16:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		4.98		mg/Kg			10/15/23 16:54	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

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)
880-34311-A-1-A MS	Matrix Spike	122	100
880-34311-A-1-B MSD	Matrix Spike Duplicate	115	104
880-34313-1	S-3 (0-1')	88	96
880-34313-2	S-3 (1.5')	85	74
880-34313-3	S-3 (2')	88	72
LCS 880-64502/1-A	Lab Control Sample	128	109
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101
MB 880-64502/5-A	Method Blank	80	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34313-1	S-3 (0-1')	103	101
880-34313-2	S-3 (1.5')	105	111
880-34313-3	S-3 (2')	108	116
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/11/23 15:04	10/12/23 11:23	1

Lab Sample ID: LCS 880-64502/1-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07857		mg/Kg		79	70 - 130
Toluene	0.100	0.07926		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.09043		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09961		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-64502/2-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08430		mg/Kg		84	70 - 130	7	35
Toluene	0.100	0.07828		mg/Kg		78	70 - 130	1	35
Ethylbenzene	0.100	0.08874		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	9	35
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-34311-A-1-A MS

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-A-1-A MS
Matrix: Solid
Analysis Batch: 64523

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	122		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 880-34311-A-1-B MSD
Matrix: Solid
Analysis Batch: 64523

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08499		mg/Kg		86	70 - 130	11	35
Toluene	<0.00200	U	0.0990	0.08138		mg/Kg		82	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.0990	0.08808		mg/Kg		89	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1873		mg/Kg		95	70 - 130	20	35
o-Xylene	<0.00200	U	0.0990	0.09482		mg/Kg		96	70 - 130	18	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-64505/1-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64505

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		10/11/23 15:46	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: LCS 880-64505/2-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	952.4		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	912.6		mg/Kg		91	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64505/2-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64505

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-64505/3-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	856.3		mg/Kg		86	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	786.7		mg/Kg		79	70 - 130	15	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		84		70 - 130					
o-Terphenyl		90		70 - 130					

Lab Sample ID: 880-34290-A-4-E MS
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64505

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	994	1158		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	994	889.8		mg/Kg		87	70 - 130		
Surrogate		MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane		97		70 - 130							
o-Terphenyl		92		70 - 130							

Lab Sample ID: 880-34290-A-4-F MSD
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64505

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	994	1187		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1-Chlorooctane		97		70 - 130							
o-Terphenyl		91		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A Matrix: Solid Analysis Batch: 64695										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			10/15/23 15:18	1		

Lab Sample ID: LCS 880-64569/2-A Matrix: Solid Analysis Batch: 64695										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.9		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-64569/3-A Matrix: Solid Analysis Batch: 64695										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	273.8		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-34313-3 MS Matrix: Solid Analysis Batch: 64695										Client Sample ID: S-3 (2') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	129		249	403.0		mg/Kg		110	90 - 110		

Lab Sample ID: 880-34313-3 MSD Matrix: Solid Analysis Batch: 64695										Client Sample ID: S-3 (2') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	129		249	402.6		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	5035	
880-34313-2	S-3 (1.5')	Total/NA	Solid	5035	
880-34313-3	S-3 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	8021B	64502
880-34313-2	S-3 (1.5')	Total/NA	Solid	8021B	64502
880-34313-3	S-3 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64502
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64502

Analysis Batch: 64677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-34313-2	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-34313-3	S-3 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-34313-2	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-34313-3	S-3 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	8015B NM	64505
880-34313-2	S-3 (1.5')	Total/NA	Solid	8015B NM	64505
880-34313-3	S-3 (2')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-34313-2	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-34313-3	S-3 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Soluble	Solid	DI Leach	
880-34313-2	S-3 (1.5')	Soluble	Solid	DI Leach	
880-34313-3	S-3 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34313-3 MS	S-3 (2')	Soluble	Solid	DI Leach	
880-34313-3 MSD	S-3 (2')	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34313-1	S-3 (0-1')	Soluble	Solid	300.0	64569
880-34313-2	S-3 (1.5')	Soluble	Solid	300.0	64569
880-34313-3	S-3 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34313-3 MS	S-3 (2')	Soluble	Solid	300.0	64569
880-34313-3 MSD	S-3 (2')	Soluble	Solid	300.0	64569

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (0-1')

Lab Sample ID: 880-34313-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64677	10/12/23 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			64715	10/12/23 14:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:43	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-34313-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64677	10/12/23 14:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			64715	10/12/23 16:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 16:26	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:48	CH	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-34313-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 14:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64677	10/12/23 14:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			64715	10/12/23 16:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 16:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 16:54	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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

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

Method Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-34313-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34313-1	S-3 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34313-2	S-3 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34313-3	S-3 (2')	Solid	10/10/23 00:00	10/11/23 14:19

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34313-1

SDG Number: Lea County, New Mexico

Login Number: 34313

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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.	N/A	
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

- 1
- 2
- 3
- 4
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- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
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JOB DESCRIPTION

Raptor West 3 State #2H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34314-1

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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Authorized for release by
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Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-34314-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
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/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

Job ID: 880-34314-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-34314-1**

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/11/2023 2:19 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 -7.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-4 (0-1') (880-34314-1), S-4 (1.5') (880-34314-2) and S-4 (2') (880-34314-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34311-A-1-C). 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-4 (0-1') (880-34314-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-64518 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-64518/47).

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (0-1')

Lab Sample ID: 880-34314-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 14:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 14:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 14:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/11/23 15:04	10/12/23 14:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 14:50	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/11/23 15:04	10/12/23 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	10/11/23 15:04	10/12/23 14:50	1
1,4-Difluorobenzene (Surr)	75		70 - 130	10/11/23 15:04	10/12/23 14:50	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			10/12/23 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	239		49.8		mg/Kg			10/12/23 17:10	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	<49.8	U	49.8		mg/Kg		10/11/23 15:46	10/12/23 17:10	1
Diesel Range Organics (Over C10-C28)	239		49.8		mg/Kg		10/11/23 15:46	10/12/23 17:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/23 15:46	10/12/23 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	10/11/23 15:46	10/12/23 17:10	1
o-Terphenyl	131	S1+	70 - 130	10/11/23 15:46	10/12/23 17:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		4.99		mg/Kg			10/15/23 17:11	1

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-34314-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 16:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 16:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/11/23 15:04	10/12/23 16:13	1
1,4-Difluorobenzene (Surr)	70		70 - 130	10/11/23 15:04	10/12/23 16:13	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-34314-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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			10/12/23 16:13	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			10/12/23 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/11/23 15:46	10/12/23 17:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/23 15:46	10/12/23 17:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/23 15:46	10/12/23 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				10/11/23 15:46	10/12/23 17:32	1
o-Terphenyl	116		70 - 130				10/11/23 15:46	10/12/23 17:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		5.03		mg/Kg			10/15/23 17:17	1

Client Sample ID: S-4 (2')

Lab Sample ID: 880-34314-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 16:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 16:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 16:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/11/23 15:04	10/12/23 16:34	1
1,4-Difluorobenzene (Surr)	71		70 - 130				10/11/23 15:04	10/12/23 16:34	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			10/12/23 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/12/23 17:54	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		10/11/23 15:46	10/12/23 17:54	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 17:54	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (2')
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34314-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/11/23 15:46	10/12/23 17:54	1
o-Terphenyl	114		70 - 130				10/11/23 15:46	10/12/23 17:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		4.97		mg/Kg			10/15/23 17:33	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

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)
880-34311-A-1-A MS	Matrix Spike	122	100
880-34311-A-1-B MSD	Matrix Spike Duplicate	115	104
880-34314-1	S-4 (0-1')	89	75
880-34314-2	S-4 (1.5')	86	70
880-34314-3	S-4 (2')	88	71
LCS 880-64502/1-A	Lab Control Sample	128	109
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101
MB 880-64502/5-A	Method Blank	80	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34314-1	S-4 (0-1')	121	131 S1+
880-34314-2	S-4 (1.5')	107	116
880-34314-3	S-4 (2')	105	114
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/11/23 15:04	10/12/23 11:23	1

Lab Sample ID: LCS 880-64502/1-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07857		mg/Kg		79	70 - 130
Toluene	0.100	0.07926		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.09043		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09961		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-64502/2-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08430		mg/Kg		84	70 - 130	7	35
Toluene	0.100	0.07828		mg/Kg		78	70 - 130	1	35
Ethylbenzene	0.100	0.08874		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	9	35
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-34311-A-1-A MS

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-A-1-A MS

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	122		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 880-34311-A-1-B MSD

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08499		mg/Kg		86	70 - 130	11	35
Toluene	<0.00200	U	0.0990	0.08138		mg/Kg		82	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.0990	0.08808		mg/Kg		89	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1873		mg/Kg		95	70 - 130	20	35
o-Xylene	<0.00200	U	0.0990	0.09482		mg/Kg		96	70 - 130	18	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-64505/1-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64505

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		10/11/23 15:46	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				10/11/23 15:46	10/12/23 08:09	1
o-Terphenyl	109		70 - 130				10/11/23 15:46	10/12/23 08:09	1

Lab Sample ID: LCS 880-64505/2-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	952.4		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	912.6		mg/Kg		91	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64505/2-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64505

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-64505/3-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64505

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	856.3		mg/Kg		86	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	786.7		mg/Kg		79	70 - 130	15	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	84		70 - 130								
o-Terphenyl	90		70 - 130								

Lab Sample ID: 880-34290-A-4-E MS
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64505

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	994	1158		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	994	889.8		mg/Kg		87	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: 880-34290-A-4-F MSD
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64505

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	994	1187		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	91		70 - 130								

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/15/23 15:18	1

Lab Sample ID: LCS 880-64569/2-A

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.9		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-64569/3-A

Matrix: Solid

Analysis Batch: 64695

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	273.8		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-34313-A-3-D MS

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	129		249	403.0		mg/Kg		110	90 - 110

Lab Sample ID: 880-34313-A-3-E MSD

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	129		249	402.6		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	5035	
880-34314-2	S-4 (1.5')	Total/NA	Solid	5035	
880-34314-3	S-4 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	8021B	64502
880-34314-2	S-4 (1.5')	Total/NA	Solid	8021B	64502
880-34314-3	S-4 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64502
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64502

Analysis Batch: 64678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-34314-2	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-34314-3	S-4 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-34314-2	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-34314-3	S-4 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	8015B NM	64505
880-34314-2	S-4 (1.5')	Total/NA	Solid	8015B NM	64505
880-34314-3	S-4 (2')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-34314-2	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-34314-3	S-4 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Soluble	Solid	DI Leach	
880-34314-2	S-4 (1.5')	Soluble	Solid	DI Leach	
880-34314-3	S-4 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34314-1	S-4 (0-1')	Soluble	Solid	300.0	64569
880-34314-2	S-4 (1.5')	Soluble	Solid	300.0	64569
880-34314-3	S-4 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	64569
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64569

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (0-1')

Lab Sample ID: 880-34314-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 14:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64678	10/12/23 14:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			64717	10/12/23 17:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 17:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:11	CH	EET MID

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-34314-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 16:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64678	10/12/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			64717	10/12/23 17:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 17:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:17	CH	EET MID

Client Sample ID: S-4 (2')

Lab Sample ID: 880-34314-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 16:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64678	10/12/23 16:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			64717	10/12/23 17:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 17:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:33	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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

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

Method Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-34314-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34314-1	S-4 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34314-2	S-4 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34314-3	S-4 (2')	Solid	10/10/23 00:00	10/11/23 14:19

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34314-1

SDG Number: Lea County, New Mexico

Login Number: 34314

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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.	N/A	
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: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 10/16/2023 2:53:54 PM

JOB DESCRIPTION

Raptor West 3 State #2H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34316-1

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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10/16/2023 2:53:54 PM

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

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-34316-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

Job ID: 880-34316-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-34316-1**

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/11/2023 2:19 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 -7.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-5 (0-1') (880-34316-1), S-5 (1.5') (880-34316-2) and S-5 (2') (880-34316-3).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5 (0-1') (880-34316-1), S-5 (2') (880-34316-3) and (880-34311-A-1-C). 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-64532 and analytical batch 880-64515 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64515/5) and (LCS 880-64532/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-34316-A-1-C MS) and (880-34316-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-64515 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) due to being inadvertently double spiked. Percent recoveries are based on the amount spiked. The associated sample is impacted: (CCV 880-64515/20).

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (0-1')

Lab Sample ID: 880-34316-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 17:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/11/23 15:04	10/12/23 17:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:56	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/11/23 15:04	10/12/23 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/11/23 15:04	10/12/23 17:56	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	10/11/23 15:04	10/12/23 17:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/12/23 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.5		49.9		mg/Kg			10/12/23 10:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/12/23 10:42	10/12/23 10:56	1
Diesel Range Organics (Over C10-C28)	60.5		49.9		mg/Kg		10/12/23 10:42	10/12/23 10:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/12/23 10:42	10/12/23 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	10/12/23 10:42	10/12/23 10:56	1
o-Terphenyl	104		70 - 130	10/12/23 10:42	10/12/23 10:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		4.99		mg/Kg			10/15/23 17:56	1

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-34316-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 18:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 18:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 18:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 18:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:04	10/12/23 18:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:04	10/12/23 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	10/11/23 15:04	10/12/23 18:16	1
1,4-Difluorobenzene (Surr)	71		70 - 130	10/11/23 15:04	10/12/23 18:16	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-34316-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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			10/12/23 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/12/23 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 12:02	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 12:02	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				10/12/23 10:42	10/12/23 12:02	1
o-Terphenyl	121		70 - 130				10/12/23 10:42	10/12/23 12:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		4.97		mg/Kg			10/15/23 18:02	1

Client Sample ID: S-5 (2')

Lab Sample ID: 880-34316-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 18:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/11/23 15:04	10/12/23 18:37	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130				10/11/23 15:04	10/12/23 18:37	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			10/12/23 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/12/23 12:24	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	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 12:24	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 12:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (2')
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34316-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				10/12/23 10:42	10/12/23 12:24	1
o-Terphenyl	122		70 - 130				10/12/23 10:42	10/12/23 12:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		5.04		mg/Kg			10/15/23 18:07	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

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)
880-34311-A-1-A MS	Matrix Spike	122	100
880-34311-A-1-B MSD	Matrix Spike Duplicate	115	104
880-34316-1	S-5 (0-1')	86	68 S1-
880-34316-2	S-5 (1.5')	87	71
880-34316-3	S-5 (2')	88	58 S1-
LCS 880-64502/1-A	Lab Control Sample	128	109
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101
MB 880-64502/5-A	Method Blank	80	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34316-1	S-5 (0-1')	112	104
880-34316-1 MS	S-5 (0-1')	137 S1+	115
880-34316-1 MSD	S-5 (0-1')	132 S1+	111
880-34316-2	S-5 (1.5')	127	121
880-34316-3	S-5 (2')	129	122
LCS 880-64532/2-A	Lab Control Sample	117	136 S1+
LCSD 880-64532/3-A	Lab Control Sample Dup	82	88
MB 880-64532/1-A	Method Blank	196 S1+	182 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/11/23 15:04	10/12/23 11:23	1

Lab Sample ID: LCS 880-64502/1-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07857		mg/Kg		79	70 - 130
Toluene	0.100	0.07926		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.09043		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09961		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-64502/2-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08430		mg/Kg		84	70 - 130	7	35
Toluene	0.100	0.07828		mg/Kg		78	70 - 130	1	35
Ethylbenzene	0.100	0.08874		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	9	35
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-34311-A-1-A MS

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-A-1-A MS
Matrix: Solid
Analysis Batch: 64523

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	122		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 880-34311-A-1-B MSD
Matrix: Solid
Analysis Batch: 64523

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08499		mg/Kg		86	70 - 130	11	35
Toluene	<0.00200	U	0.0990	0.08138		mg/Kg		82	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.0990	0.08808		mg/Kg		89	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1873		mg/Kg		95	70 - 130	20	35
o-Xylene	<0.00200	U	0.0990	0.09482		mg/Kg		96	70 - 130	18	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-64532/1-A
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64532

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		10/12/23 08:00	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/12/23 08:00	10/12/23 08:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/12/23 08:00	10/12/23 08:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	196	S1+	70 - 130						
o-Terphenyl	182	S1+	70 - 130						

Lab Sample ID: LCS 880-64532/2-A
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	843.0		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	878.5		mg/Kg		88	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64532/2-A
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64532

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: LCSD 880-64532/3-A
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64532

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	798.2		mg/Kg		80	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	772.7		mg/Kg		77	70 - 130	13	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 880-34316-1 MS
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: S-5 (0-1')
Prep Type: Total/NA
Prep Batch: 64532

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	991	946.5		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	60.5		991	1320		mg/Kg		127	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 880-34316-1 MSD
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: S-5 (0-1')
Prep Type: Total/NA
Prep Batch: 64532

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	991	919.0		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	60.5		991	1278		mg/Kg		123	70 - 130	3	20

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

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A
Matrix: Solid
Analysis Batch: 64695

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/15/23 15:18	1

Lab Sample ID: LCS 880-64569/2-A
Matrix: Solid
Analysis Batch: 64695

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.9		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-64569/3-A
Matrix: Solid
Analysis Batch: 64695

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	273.8		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-34313-A-3-D MS
Matrix: Solid
Analysis Batch: 64695

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	129		249	403.0		mg/Kg		110	90 - 110

Lab Sample ID: 880-34313-A-3-E MSD
Matrix: Solid
Analysis Batch: 64695

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	129		249	402.6		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	5035	
880-34316-2	S-5 (1.5')	Total/NA	Solid	5035	
880-34316-3	S-5 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	8021B	64502
880-34316-2	S-5 (1.5')	Total/NA	Solid	8021B	64502
880-34316-3	S-5 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64502
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64502

Analysis Batch: 64680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-34316-2	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-34316-3	S-5 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 64515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	8015B NM	64532
880-34316-2	S-5 (1.5')	Total/NA	Solid	8015B NM	64532
880-34316-3	S-5 (2')	Total/NA	Solid	8015B NM	64532
MB 880-64532/1-A	Method Blank	Total/NA	Solid	8015B NM	64532
LCS 880-64532/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64532
LCSD 880-64532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64532
880-34316-1 MS	S-5 (0-1')	Total/NA	Solid	8015B NM	64532
880-34316-1 MSD	S-5 (0-1')	Total/NA	Solid	8015B NM	64532

Prep Batch: 64532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-34316-2	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-34316-3	S-5 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64532/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64532/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34316-1 MS	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-34316-1 MSD	S-5 (0-1')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-34316-2	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-34316-3	S-5 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Soluble	Solid	DI Leach	
880-34316-2	S-5 (1.5')	Soluble	Solid	DI Leach	
880-34316-3	S-5 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34316-1	S-5 (0-1')	Soluble	Solid	300.0	64569
880-34316-2	S-5 (1.5')	Soluble	Solid	300.0	64569
880-34316-3	S-5 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	64569
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64569

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (0-1')

Lab Sample ID: 880-34316-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 17:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64680	10/12/23 17:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			64656	10/12/23 10:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 10:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:56	CH	EET MID

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-34316-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 18:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64680	10/12/23 18:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			64656	10/12/23 12:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 12:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 18:02	CH	EET MID

Client Sample ID: S-5 (2')

Lab Sample ID: 880-34316-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64680	10/12/23 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			64656	10/12/23 12:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 12:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 18:07	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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

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

Method Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-34316-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34316-1	S-5 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34316-2	S-5 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34316-3	S-5 (2')	Solid	10/10/23 00:00	10/11/23 14:19

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34316-1

SDG Number: Lea County, New Mexico

Login Number: 34316

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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.	N/A	
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: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 10/16/2023 2:53:01 PM

JOB DESCRIPTION

Raptor West 3 State #2H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34315-1

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
10/16/2023 2:53:01 PM

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

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-34315-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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
SQL	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/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

Job ID: 880-34315-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-34315-1**

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/11/2023 2:19 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 -7.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-6 (0-1') (880-34315-1), S-6 (1.5') (880-34315-2) and S-6 (2') (880-34315-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34311-A-1-C). 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.

GC Semi VOA

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-64518 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-64518/47).

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

Client Sample ID: S-6 (0-1')

Lab Sample ID: 880-34315-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 16:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 16:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 16:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 16:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 16:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 15:04	10/12/23 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/11/23 15:04	10/12/23 16:54	1
1,4-Difluorobenzene (Surr)	71		70 - 130	10/11/23 15:04	10/12/23 16:54	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			10/12/23 16:54	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			10/12/23 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 18:16	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 18:16	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	10/11/23 15:46	10/12/23 18:16	1
o-Terphenyl	119		70 - 130	10/11/23 15:46	10/12/23 18:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		5.00		mg/Kg			10/15/23 17:39	1

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-34315-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 17:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 17:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 17:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/23 15:04	10/12/23 17:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:04	10/12/23 17:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/23 15:04	10/12/23 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/11/23 15:04	10/12/23 17:15	1
1,4-Difluorobenzene (Surr)	76		70 - 130	10/11/23 15:04	10/12/23 17:15	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-34315-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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			10/12/23 17:15	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			10/12/23 18:38	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		10/11/23 15:46	10/12/23 18:38	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 18:38	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				10/11/23 15:46	10/12/23 18:38	1
o-Terphenyl	100		70 - 130				10/11/23 15:46	10/12/23 18:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		5.01		mg/Kg			10/15/23 17:45	1

Client Sample ID: S-6 (2')

Lab Sample ID: 880-34315-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:04	10/12/23 17:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/11/23 15:04	10/12/23 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/11/23 15:04	10/12/23 17:35	1
1,4-Difluorobenzene (Surr)	82		70 - 130				10/11/23 15:04	10/12/23 17:35	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			10/12/23 17:35	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			10/12/23 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 19:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 19:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

Client Sample ID: S-6 (2')
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34315-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 19:01	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	110		70 - 130				10/11/23 15:46	10/12/23 19:01	1	
o-Terphenyl	120		70 - 130				10/11/23 15:46	10/12/23 19:01	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	147		5.02		mg/Kg			10/15/23 17:50	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

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)
880-34311-A-1-A MS	Matrix Spike	122	100
880-34311-A-1-B MSD	Matrix Spike Duplicate	115	104
880-34315-1	S-6 (0-1')	90	71
880-34315-2	S-6 (1.5')	86	76
880-34315-3	S-6 (2')	88	82
LCS 880-64502/1-A	Lab Control Sample	128	109
LCSD 880-64502/2-A	Lab Control Sample Dup	128	101
MB 880-64502/5-A	Method Blank	80	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34315-1	S-6 (0-1')	112	119
880-34315-2	S-6 (1.5')	92	100
880-34315-3	S-6 (2')	110	120
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64502/5-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:04	10/12/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 15:04	10/12/23 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	10/11/23 15:04	10/12/23 11:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/11/23 15:04	10/12/23 11:23	1

Lab Sample ID: LCS 880-64502/1-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07857		mg/Kg		79	70 - 130
Toluene	0.100	0.07926		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.09043		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09961		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-64502/2-A

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08430		mg/Kg		84	70 - 130	7	35
Toluene	0.100	0.07828		mg/Kg		78	70 - 130	1	35
Ethylbenzene	0.100	0.08874		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	9	35
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-34311-A-1-A MS

Matrix: Solid

Analysis Batch: 64523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.09524		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.0996	0.09387		mg/Kg		94	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34311-A-1-A MS
Matrix: Solid
Analysis Batch: 64523

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.1043		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2282		mg/Kg		115	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1141		mg/Kg		115	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	122		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 880-34311-A-1-B MSD
Matrix: Solid
Analysis Batch: 64523

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08499		mg/Kg		86	70 - 130	11	35
Toluene	<0.00200	U	0.0990	0.08138		mg/Kg		82	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.0990	0.08808		mg/Kg		89	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1873		mg/Kg		95	70 - 130	20	35
o-Xylene	<0.00200	U	0.0990	0.09482		mg/Kg		96	70 - 130	18	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-64505/1-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64505

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		10/11/23 15:46	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: LCS 880-64505/2-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	952.4		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	912.6		mg/Kg		91	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64505/2-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64505

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-64505/3-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	856.3		mg/Kg		86	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	786.7		mg/Kg		79	70 - 130	15	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-34290-A-4-E MS
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64505

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	994	1158		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	994	889.8		mg/Kg		87	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-34290-A-4-F MSD
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64505

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	994	1187		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	91		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A Matrix: Solid Analysis Batch: 64695										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analized	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			10/15/23 15:18	1		

Lab Sample ID: LCS 880-64569/2-A Matrix: Solid Analysis Batch: 64695										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.9		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-64569/3-A Matrix: Solid Analysis Batch: 64695										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	273.8		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-34313-A-3-D MS Matrix: Solid Analysis Batch: 64695										Client Sample ID: Matrix Spike Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	129		249	403.0		mg/Kg		110	90 - 110		

Lab Sample ID: 880-34313-A-3-E MSD Matrix: Solid Analysis Batch: 64695										Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	129		249	402.6		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	5035	
880-34315-2	S-6 (1.5')	Total/NA	Solid	5035	
880-34315-3	S-6 (2')	Total/NA	Solid	5035	
MB 880-64502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	8021B	64502
880-34315-2	S-6 (1.5')	Total/NA	Solid	8021B	64502
880-34315-3	S-6 (2')	Total/NA	Solid	8021B	64502
MB 880-64502/5-A	Method Blank	Total/NA	Solid	8021B	64502
LCS 880-64502/1-A	Lab Control Sample	Total/NA	Solid	8021B	64502
LCSD 880-64502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64502
880-34311-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	64502
880-34311-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64502

Analysis Batch: 64679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	Total BTEX	
880-34315-2	S-6 (1.5')	Total/NA	Solid	Total BTEX	
880-34315-3	S-6 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-34315-2	S-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-34315-3	S-6 (2')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	8015B NM	64505
880-34315-2	S-6 (1.5')	Total/NA	Solid	8015B NM	64505
880-34315-3	S-6 (2')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

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QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Total/NA	Solid	8015 NM	
880-34315-2	S-6 (1.5')	Total/NA	Solid	8015 NM	
880-34315-3	S-6 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Soluble	Solid	DI Leach	
880-34315-2	S-6 (1.5')	Soluble	Solid	DI Leach	
880-34315-3	S-6 (2')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34315-1	S-6 (0-1')	Soluble	Solid	300.0	64569
880-34315-2	S-6 (1.5')	Soluble	Solid	300.0	64569
880-34315-3	S-6 (2')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34313-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	64569
880-34313-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64569

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

Client Sample ID: S-6 (0-1')

Lab Sample ID: 880-34315-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 16:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64679	10/12/23 16:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			64718	10/12/23 18:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 18:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:39	CH	EET MID

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-34315-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 17:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64679	10/12/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			64718	10/12/23 18:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 18:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:45	CH	EET MID

Client Sample ID: S-6 (2')

Lab Sample ID: 880-34315-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64502	10/11/23 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64523	10/12/23 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64679	10/12/23 17:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			64718	10/12/23 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 19:01	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 17:50	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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

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

Method Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-34315-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34315-1	S-6 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34315-2	S-6 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19
880-34315-3	S-6 (2')	Solid	10/10/23 00:00	10/11/23 14:19

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- 12
- 13
- 14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34315-1

SDG Number: Lea County, New Mexico

Login Number: 34315

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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.	N/A	
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: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 10/16/2023 2:48:55 PM

JOB DESCRIPTION

Raptor West 3 State #2H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34309-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

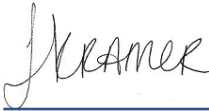
Eurofins Midland

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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10/16/2023 2:48:55 PM

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

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-34309-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

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
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.
α	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/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

Job ID: 880-34309-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-34309-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/11/2023 2:19 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 -7.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-7 (0-1') (880-34309-1) and S-7 (1.5') (880-34309-2).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-64494 and analytical batch 880-64432 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34290-A-4-B MS). 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.

GC Semi VOA

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64568 and analytical batch 880-64693 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

Client Sample ID: S-7 (0-1')

Lab Sample ID: 880-34309-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:00	10/12/23 06:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/11/23 15:00	10/12/23 06:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/11/23 15:00	10/12/23 06:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/11/23 15:00	10/12/23 06:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/11/23 15:00	10/12/23 06:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/11/23 15:00	10/12/23 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/11/23 15:00	10/12/23 06:34	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/11/23 15:00	10/12/23 06:34	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			10/12/23 06:34	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			10/12/23 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 12:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 12:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	10/11/23 15:46	10/12/23 12:02	1
o-Terphenyl	117		70 - 130	10/11/23 15:46	10/12/23 12:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		5.03		mg/Kg			10/15/23 14:39	1

Client Sample ID: S-7 (1.5')

Lab Sample ID: 880-34309-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:00	10/12/23 06:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:00	10/12/23 06:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:00	10/12/23 06:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 15:00	10/12/23 06:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 15:00	10/12/23 06:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 15:00	10/12/23 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/11/23 15:00	10/12/23 06:55	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/11/23 15:00	10/12/23 06:55	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

Client Sample ID: S-7 (1.5')

Lab Sample ID: 880-34309-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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			10/12/23 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/12/23 12:24	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	<50.3	U	50.3		mg/Kg		10/11/23 15:46	10/12/23 12:24	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/11/23 15:46	10/12/23 12:24	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/11/23 15:46	10/12/23 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	10/11/23 15:46	10/12/23 12:24	1
o-Terphenyl	127		70 - 130	10/11/23 15:46	10/12/23 12:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		5.03		mg/Kg			10/15/23 14:44	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

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)
880-34290-A-4-B MS	Matrix Spike	111	98
880-34290-A-4-C MSD	Matrix Spike Duplicate	122	142 S1+
880-34309-1	S-7 (0-1')	104	104
880-34309-2	S-7 (1.5')	103	107
LCS 880-64494/1-A	Lab Control Sample	108	94
LCSD 880-64494/2-A	Lab Control Sample Dup	104	100
MB 880-64332/5-A	Method Blank	108	122
MB 880-64494/5-A	Method Blank	118	129
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34309-1	S-7 (0-1')	110	117
880-34309-2	S-7 (1.5')	119	127
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64332/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 64432							Prep Batch: 64332		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				10/10/23 10:38	10/11/23 12:35	1
1,4-Difluorobenzene (Surr)	122		70 - 130				10/10/23 10:38	10/11/23 12:35	1

Lab Sample ID: MB 880-64494/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 64432							Prep Batch: 64494		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				10/11/23 13:47	10/12/23 00:11	1
1,4-Difluorobenzene (Surr)	129		70 - 130				10/11/23 13:47	10/12/23 00:11	1

Lab Sample ID: LCS 880-64494/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 64432							Prep Batch: 64494		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.09030		mg/Kg		90	70 - 130		
Toluene	0.100	0.08593		mg/Kg		86	70 - 130		
Ethylbenzene	0.100	0.08307		mg/Kg		83	70 - 130		
m-Xylene & p-Xylene	0.200	0.1713		mg/Kg		86	70 - 130		
o-Xylene	0.100	0.08396		mg/Kg		84	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		70 - 130						
1,4-Difluorobenzene (Surr)	94		70 - 130						

Lab Sample ID: LCSD 880-64494/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 64432							Prep Batch: 64494		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09034		mg/Kg		90	70 - 130	0	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-64494/2-A

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64494

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	
Toluene	0.100	0.08974			mg/Kg		90	70 - 130	4	35
Ethylbenzene	0.100	0.08819			mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1943			mg/Kg		97	70 - 130	13	35
o-Xylene	0.100	0.09133			mg/Kg		91	70 - 130	8	35
LCSD		LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	104		70 - 130							
1,4-Difluorobenzene (Surr)	100		70 - 130							

Lab Sample ID: 880-34290-A-4-B MS

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64494

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Benzene	<0.00198	U	0.0998	0.08825		mg/Kg		88	70 - 130	
Toluene	<0.00198	U F1	0.0998	0.07919		mg/Kg		79	70 - 130	
Ethylbenzene	<0.00198	U F1	0.0998	0.08069		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1791		mg/Kg		90	70 - 130	
o-Xylene	<0.00198	U	0.0998	0.08455		mg/Kg		85	70 - 130	
MS		MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	111		70 - 130							
1,4-Difluorobenzene (Surr)	98		70 - 130							

Lab Sample ID: 880-34290-A-4-C MSD

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64494

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Benzene	<0.00198	U	0.100	0.1203		mg/Kg		120	70 - 130	31
Toluene	<0.00198	U F1	0.100	0.05846	F1	mg/Kg		58	70 - 130	30
Ethylbenzene	<0.00198	U F1	0.100	0.06805	F1	mg/Kg		68	70 - 130	17
m-Xylene & p-Xylene	<0.00396	U	0.201	0.2010		mg/Kg		100	70 - 130	12
o-Xylene	<0.00198	U	0.100	0.09822		mg/Kg		98	70 - 130	15
MSD		MSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	122		70 - 130							
1,4-Difluorobenzene (Surr)	142	S1+	70 - 130							

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

Lab Sample ID: MB 880-64505/1-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64505

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-64505/1-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				10/11/23 15:46	10/12/23 08:09	1
o-Terphenyl	109		70 - 130				10/11/23 15:46	10/12/23 08:09	1

Lab Sample ID: LCS 880-64505/2-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	952.4		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	912.6		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	97		70 - 130				
o-Terphenyl	103		70 - 130				

Lab Sample ID: LCSD 880-64505/3-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	856.3		mg/Kg		86	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	786.7		mg/Kg		79	70 - 130	15	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	84		70 - 130						
o-Terphenyl	90		70 - 130						

Lab Sample ID: 880-34290-A-4-E MS
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64505

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	994	1158		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	994	889.8		mg/Kg		87	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
o-Terphenyl	92		70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34290-A-4-F MSD

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64505

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	994	1187		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	91		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64568/1-A

Matrix: Solid

Analysis Batch: 64693

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/13/23 17:10	1

Lab Sample ID: LCS 880-64568/2-A

Matrix: Solid

Analysis Batch: 64693

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-64568/3-A

Matrix: Solid

Analysis Batch: 64693

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	251.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-34299-A-11-B MS

Matrix: Solid

Analysis Batch: 64693

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	282	F1	248	583.8	F1	mg/Kg		122	90 - 110

Lab Sample ID: 880-34299-A-11-C MSD

Matrix: Solid

Analysis Batch: 64693

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	282	F1	248	639.2	F1	mg/Kg		144	90 - 110	9	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64332/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 64432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	8021B	64494
880-34309-2	S-7 (1.5')	Total/NA	Solid	8021B	64494
MB 880-64332/5-A	Method Blank	Total/NA	Solid	8021B	64332
MB 880-64494/5-A	Method Blank	Total/NA	Solid	8021B	64494
LCS 880-64494/1-A	Lab Control Sample	Total/NA	Solid	8021B	64494
LCSD 880-64494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64494
880-34290-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	64494
880-34290-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64494

Prep Batch: 64494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	5035	
880-34309-2	S-7 (1.5')	Total/NA	Solid	5035	
MB 880-64494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34290-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-34290-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	Total BTEX	
880-34309-2	S-7 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-34309-2	S-7 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	8015B NM	64505
880-34309-2	S-7 (1.5')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Total/NA	Solid	8015 NM	
880-34309-2	S-7 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Soluble	Solid	DI Leach	
880-34309-2	S-7 (1.5')	Soluble	Solid	DI Leach	
MB 880-64568/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64568/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64568/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34299-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34299-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 64693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34309-1	S-7 (0-1')	Soluble	Solid	300.0	64568
880-34309-2	S-7 (1.5')	Soluble	Solid	300.0	64568
MB 880-64568/1-A	Method Blank	Soluble	Solid	300.0	64568
LCS 880-64568/2-A	Lab Control Sample	Soluble	Solid	300.0	64568
LCSD 880-64568/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64568
880-34299-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	64568
880-34299-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64568

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

Client Sample ID: S-7 (0-1')
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34309-1
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	64494	10/11/23 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64432	10/12/23 06:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64600	10/12/23 06:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			64712	10/12/23 12:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 12:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64568	10/12/23 14:13	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64693	10/15/23 14:39	CH	EET MID

Client Sample ID: S-7 (1.5')
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34309-2
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	64494	10/11/23 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64432	10/12/23 06:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64600	10/12/23 06:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			64712	10/12/23 12:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 12:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64568	10/12/23 14:13	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64693	10/15/23 14:44	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: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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

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

Method Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-34309-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34309-1	S-7 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34309-2	S-7 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34309-1

SDG Number: Lea County, New Mexico

Login Number: 34309

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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.	N/A	
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: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 10/16/2023 2:50:18 PM

JOB DESCRIPTION

Raptor West 3 State #2H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34310-1

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

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-34310-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

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
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/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

Job ID: 880-34310-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-34310-1**

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/11/2023 2:19 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 -7.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-8 (0-1') (880-34310-1) and S-8 (1.5') (880-34310-2).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-64494 and analytical batch 880-64432 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34290-A-4-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-8 (1.5') (880-34310-2). 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-8 (1.5') (880-34310-2). 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64569 and analytical batch 880-64695 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

Client Sample ID: S-8 (0-1')

Lab Sample ID: 880-34310-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:00	10/12/23 07:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:00	10/12/23 07:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:00	10/12/23 07:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 15:00	10/12/23 07:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 15:00	10/12/23 07:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 15:00	10/12/23 07:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/11/23 15:00	10/12/23 07:15	1
1,4-Difluorobenzene (Surr)	117		70 - 130	10/11/23 15:00	10/12/23 07:15	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			10/12/23 07:15	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			10/12/23 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 12:46	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 12:46	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/11/23 15:46	10/12/23 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	10/11/23 15:46	10/12/23 12:46	1
o-Terphenyl	126		70 - 130	10/11/23 15:46	10/12/23 12:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104	F1	4.97		mg/Kg			10/15/23 15:35	1

Client Sample ID: S-8 (1.5')

Lab Sample ID: 880-34310-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 15:00	10/12/23 07:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:00	10/12/23 07:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:00	10/12/23 07:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/23 15:00	10/12/23 07:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/23 15:00	10/12/23 07:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/23 15:00	10/12/23 07:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	304	S1+	70 - 130	10/11/23 15:00	10/12/23 07:35	1
1,4-Difluorobenzene (Surr)	84		70 - 130	10/11/23 15:00	10/12/23 07:35	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

Client Sample ID: S-8 (1.5')

Lab Sample ID: 880-34310-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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			10/12/23 07:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/12/23 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/11/23 15:46	10/12/23 13:08	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/11/23 15:46	10/12/23 13:08	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/11/23 15:46	10/12/23 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	10/11/23 15:46	10/12/23 13:08	1
o-Terphenyl	136	S1+	70 - 130	10/11/23 15:46	10/12/23 13:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		4.98		mg/Kg			10/15/23 15:52	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

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)
880-34290-A-4-B MS	Matrix Spike	111	98
880-34290-A-4-C MSD	Matrix Spike Duplicate	122	142 S1+
880-34310-1	S-8 (0-1')	99	117
880-34310-2	S-8 (1.5')	304 S1+	84
LCS 880-64494/1-A	Lab Control Sample	108	94
LCSD 880-64494/2-A	Lab Control Sample Dup	104	100
MB 880-64332/5-A	Method Blank	108	122
MB 880-64494/5-A	Method Blank	118	129
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34290-A-4-E MS	Matrix Spike	97	92
880-34290-A-4-F MSD	Matrix Spike Duplicate	97	91
880-34310-1	S-8 (0-1')	117	126
880-34310-2	S-8 (1.5')	126	136 S1+
LCS 880-64505/2-A	Lab Control Sample	97	103
LCSD 880-64505/3-A	Lab Control Sample Dup	84	90
MB 880-64505/1-A	Method Blank	96	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64332/5-A

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/23 10:38	10/11/23 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/10/23 10:38	10/11/23 12:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/10/23 10:38	10/11/23 12:35	1
1,4-Difluorobenzene (Surr)	122		70 - 130	10/10/23 10:38	10/11/23 12:35	1

Lab Sample ID: MB 880-64494/5-A

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 13:47	10/12/23 00:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 13:47	10/12/23 00:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	10/11/23 13:47	10/12/23 00:11	1
1,4-Difluorobenzene (Surr)	129		70 - 130	10/11/23 13:47	10/12/23 00:11	1

Lab Sample ID: LCS 880-64494/1-A

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09030		mg/Kg		90	70 - 130
Toluene	0.100	0.08593		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08307		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1713		mg/Kg		86	70 - 130
o-Xylene	0.100	0.08396		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-64494/2-A

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09034		mg/Kg		90	70 - 130	0	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-64494/2-A

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.08974		mg/Kg		90	70 - 130		4	35
Ethylbenzene	0.100	0.08819		mg/Kg		88	70 - 130		6	35
m-Xylene & p-Xylene	0.200	0.1943		mg/Kg		97	70 - 130		13	35
o-Xylene	0.100	0.09133		mg/Kg		91	70 - 130		8	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-34290-A-4-B MS

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00198	U	0.0998	0.08825		mg/Kg		88	70 - 130	
Toluene	<0.00198	U F1	0.0998	0.07919		mg/Kg		79	70 - 130	
Ethylbenzene	<0.00198	U F1	0.0998	0.08069		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1791		mg/Kg		90	70 - 130	
o-Xylene	<0.00198	U	0.0998	0.08455		mg/Kg		85	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-34290-A-4-C MSD

Matrix: Solid

Analysis Batch: 64432

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00198	U	0.100	0.1203		mg/Kg		120	70 - 130		31	35
Toluene	<0.00198	U F1	0.100	0.05846	F1	mg/Kg		58	70 - 130		30	35
Ethylbenzene	<0.00198	U F1	0.100	0.06805	F1	mg/Kg		68	70 - 130		17	35
m-Xylene & p-Xylene	<0.00396	U	0.201	0.2010		mg/Kg		100	70 - 130		12	35
o-Xylene	<0.00198	U	0.100	0.09822		mg/Kg		98	70 - 130		15	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	142	S1+	70 - 130

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

Lab Sample ID: MB 880-64505/1-A

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64505

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-64505/1-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64505

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/23 15:46	10/12/23 08:09	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	96		70 - 130				10/11/23 15:46	10/12/23 08:09	1
o-Terphenyl	109		70 - 130				10/11/23 15:46	10/12/23 08:09	1

Lab Sample ID: LCS 880-64505/2-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64505

Analyte			Spike	LCS	LCS	Unit	D	%Rec		
			Added	Result	Qualifier			%Rec		
Gasoline Range Organics (GRO)-C6-C10			1000	952.4		mg/Kg		95	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	912.6		mg/Kg		91	70 - 130	
Surrogate	LCS		Limits							
	%Recovery	Qualifier								
1-Chlorooctane	97		70 - 130							
o-Terphenyl	103		70 - 130							

Lab Sample ID: LCSD 880-64505/3-A
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64505

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	856.3		mg/Kg		86	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	786.7		mg/Kg		79	70 - 130	15	20
Surrogate	LCSD		LCSD	Limits							
	%Recovery	Qualifier									
1-Chlorooctane	84		70 - 130								
o-Terphenyl	90		70 - 130								

Lab Sample ID: 880-34290-A-4-E MS
Matrix: Solid
Analysis Batch: 64518

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64505

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	994	1158		mg/Kg		113		70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	994	889.8		mg/Kg		87		70 - 130		
Surrogate	MS	MS	Limits									
	%Recovery	Qualifier										
1-Chlorooctane	97		70 - 130									
o-Terphenyl	92		70 - 130									

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34290-A-4-F MSD

Matrix: Solid

Analysis Batch: 64518

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64505

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	994	1187		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	994	893.7		mg/Kg		87	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	91		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64569/1-A

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/15/23 15:18	1

Lab Sample ID: LCS 880-64569/2-A

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.9		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-64569/3-A

Matrix: Solid

Analysis Batch: 64695

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	273.8		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-34310-1 MS

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: S-8 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	104	F1	249	391.2	F1	mg/Kg		116	90 - 110

Lab Sample ID: 880-34310-1 MSD

Matrix: Solid

Analysis Batch: 64695

Client Sample ID: S-8 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	104	F1	249	390.0	F1	mg/Kg		115	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64332/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 64432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	8021B	64494
880-34310-2	S-8 (1.5')	Total/NA	Solid	8021B	64494
MB 880-64332/5-A	Method Blank	Total/NA	Solid	8021B	64332
MB 880-64494/5-A	Method Blank	Total/NA	Solid	8021B	64494
LCS 880-64494/1-A	Lab Control Sample	Total/NA	Solid	8021B	64494
LCSD 880-64494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64494
880-34290-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	64494
880-34290-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64494

Prep Batch: 64494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	5035	
880-34310-2	S-8 (1.5')	Total/NA	Solid	5035	
MB 880-64494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34290-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-34290-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	Total BTEX	
880-34310-2	S-8 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-34310-2	S-8 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	8015B NM	64505
880-34310-2	S-8 (1.5')	Total/NA	Solid	8015B NM	64505
MB 880-64505/1-A	Method Blank	Total/NA	Solid	8015B NM	64505
LCS 880-64505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64505
LCSD 880-64505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64505
880-34290-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	64505
880-34290-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64505

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 64713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Total/NA	Solid	8015 NM	
880-34310-2	S-8 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Soluble	Solid	DI Leach	
880-34310-2	S-8 (1.5')	Soluble	Solid	DI Leach	
MB 880-64569/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34310-1 MS	S-8 (0-1')	Soluble	Solid	DI Leach	
880-34310-1 MSD	S-8 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 64695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34310-1	S-8 (0-1')	Soluble	Solid	300.0	64569
880-34310-2	S-8 (1.5')	Soluble	Solid	300.0	64569
MB 880-64569/1-A	Method Blank	Soluble	Solid	300.0	64569
LCS 880-64569/2-A	Lab Control Sample	Soluble	Solid	300.0	64569
LCSD 880-64569/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64569
880-34310-1 MS	S-8 (0-1')	Soluble	Solid	300.0	64569
880-34310-1 MSD	S-8 (0-1')	Soluble	Solid	300.0	64569

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

Client Sample ID: S-8 (0-1')
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34310-1
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	64494	10/11/23 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64432	10/12/23 07:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64601	10/12/23 07:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			64713	10/12/23 12:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 12:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 15:35	CH	EET MID

Client Sample ID: S-8 (1.5')
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34310-2
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	64494	10/11/23 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64432	10/12/23 07:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64601	10/12/23 07:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			64713	10/12/23 13:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64505	10/11/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64518	10/12/23 13:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64569	10/12/23 14:15	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64695	10/15/23 15:52	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: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-34310-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34310-1	S-8 (0-1')	Solid	10/10/23 00:00	10/11/23 14:19
880-34310-2	S-8 (1.5')	Solid	10/10/23 00:00	10/11/23 14:19

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34310-1

SDG Number: Lea County, New Mexico

Login Number: 34310

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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.	N/A	
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: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 10/16/2023 2:54:22 PM

JOB DESCRIPTION

Raptor West 3 State #2H
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-34317-1

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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10/16/2023 2:54:22 PM

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

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-34317-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
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/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Job ID: 880-34317-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-34317-1**

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/11/2023 2:19 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 -7.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-6") (880-34317-1), H-2 (0-6") (880-34317-2), H-3 (0-6") (880-34317-3), H-4 (0-6") (880-34317-4), H-5 (0-6") (880-34317-5), H-6 (0-6") (880-34317-6), H-7 (0-6") (880-34317-7) and H-8 (0-6") (880-34317-8).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-64532 and analytical batch 880-64515 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64515/5) and (LCS 880-64532/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-34316-A-1-C MS) and (880-34316-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-2 (0-6") (880-34317-2), H-3 (0-6") (880-34317-3), H-4 (0-6") (880-34317-4), H-5 (0-6") (880-34317-5), H-6 (0-6") (880-34317-6) and H-7 (0-6") (880-34317-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-8 (0-6") (880-34317-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-64515 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) due to being inadvertently double spiked. Percent recoveries are based on the amount spiked. The associated samples are impacted: (CCV 880-64515/20) and (CCV 880-64515/31).

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64568 and analytical batch 880-64693 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because

Case Narrative

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Job ID: 880-34317-1 (Continued)

Laboratory: Eurofins Midland (Continued)

the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Client Sample ID: H-1 (0-6")

Lab Sample ID: 880-34317-1

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 16:59	10/12/23 12:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 12:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 12:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/11/23 16:59	10/12/23 12:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 12:30	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/11/23 16:59	10/12/23 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/11/23 16:59	10/12/23 12:30	1
1,4-Difluorobenzene (Surr)	92		70 - 130	10/11/23 16:59	10/12/23 12:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/12/23 12:30	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			10/12/23 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 12:46	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 12:46	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	10/12/23 10:42	10/12/23 12:46	1
o-Terphenyl	121		70 - 130	10/12/23 10:42	10/12/23 12:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.5		4.96		mg/Kg			10/13/23 18:06	1

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-34317-2

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 16:59	10/12/23 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 16:59	10/12/23 12:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 16:59	10/12/23 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	10/11/23 16:59	10/12/23 12:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/11/23 16:59	10/12/23 12:51	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Client Sample ID: H-2 (0-6")
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34317-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/12/23 12:51	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5		mg/Kg			10/12/23 13:08	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 13:08	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 13:08	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 13:08	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	160	S1+	70 - 130				10/12/23 10:42	10/12/23 13:08	1	
o-Terphenyl	148	S1+	70 - 130				10/12/23 10:42	10/12/23 13:08	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	77.8		5.00		mg/Kg			10/13/23 18:22	1	

Client Sample ID: H-3 (0-6")
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34317-3
Matrix: Solid

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		10/11/23 16:59	10/12/23 13:11	1	
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 13:11	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 13:11	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 16:59	10/12/23 13:11	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 13:11	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 16:59	10/12/23 13:11	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	107		70 - 130				10/11/23 16:59	10/12/23 13:11	1	
1,4-Difluorobenzene (Surr)	101		70 - 130				10/11/23 16:59	10/12/23 13:11	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			10/12/23 13:11	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			10/12/23 13:30	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	<49.7	U	49.7		mg/Kg		10/12/23 10:42	10/12/23 13:30	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/12/23 10:42	10/12/23 13:30	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-34317-3

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/12/23 10:42	10/12/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				10/12/23 10:42	10/12/23 13:30	1
o-Terphenyl	124		70 - 130				10/12/23 10:42	10/12/23 13:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.4		4.99		mg/Kg			10/13/23 18:27	1

Client Sample ID: H-4 (0-6")

Lab Sample ID: 880-34317-4

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 16:59	10/12/23 13:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 13:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 13:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/11/23 16:59	10/12/23 13:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 13:32	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/11/23 16:59	10/12/23 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				10/11/23 16:59	10/12/23 13:32	1
1,4-Difluorobenzene (Surr)	96		70 - 130				10/11/23 16:59	10/12/23 13:32	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			10/12/23 13:32	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			10/12/23 13:52	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		10/12/23 10:42	10/12/23 13:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/12/23 10:42	10/12/23 13:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/12/23 10:42	10/12/23 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				10/12/23 10:42	10/12/23 13:52	1
o-Terphenyl	128		70 - 130				10/12/23 10:42	10/12/23 13:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.01		mg/Kg			10/13/23 18:32	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Client Sample ID: H-5 (0-6")

Lab Sample ID: 880-34317-5

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 16:59	10/12/23 13:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 13:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 13:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/11/23 16:59	10/12/23 13:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 13:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/23 16:59	10/12/23 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/11/23 16:59	10/12/23 13:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/11/23 16:59	10/12/23 13:52	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			10/12/23 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/12/23 14:14	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	<49.6	U	49.6		mg/Kg		10/12/23 10:42	10/12/23 14:14	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/12/23 10:42	10/12/23 14:14	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/12/23 10:42	10/12/23 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130	10/12/23 10:42	10/12/23 14:14	1
o-Terphenyl	138	S1+	70 - 130	10/12/23 10:42	10/12/23 14:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.5		4.97		mg/Kg			10/13/23 18:37	1

Client Sample ID: H-6 (0-6")

Lab Sample ID: 880-34317-6

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 16:59	10/12/23 14:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 14:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 14:13	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/11/23 16:59	10/12/23 14:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 14:13	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/11/23 16:59	10/12/23 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/11/23 16:59	10/12/23 14:13	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/11/23 16:59	10/12/23 14:13	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Client Sample ID: H-6 (0-6")

Lab Sample ID: 880-34317-6

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/12/23 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/12/23 14:36	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	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 14:36	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 14:36	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/12/23 10:42	10/12/23 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				10/12/23 10:42	10/12/23 14:36	1
o-Terphenyl	123		70 - 130				10/12/23 10:42	10/12/23 14:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.9		4.95		mg/Kg			10/13/23 18:52	1

Client Sample ID: H-7 (0-6")

Lab Sample ID: 880-34317-7

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 16:59	10/12/23 14:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/23 16:59	10/12/23 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				10/11/23 16:59	10/12/23 14:33	1
1,4-Difluorobenzene (Surr)	99		70 - 130				10/11/23 16:59	10/12/23 14:33	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			10/12/23 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/12/23 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 14:58	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 14:58	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Client Sample ID: H-7 (0-6")

Lab Sample ID: 880-34317-7

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/12/23 10:42	10/12/23 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				10/12/23 10:42	10/12/23 14:58	1
o-Terphenyl	127		70 - 130				10/12/23 10:42	10/12/23 14:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.98		mg/Kg			10/13/23 18:57	1

Client Sample ID: H-8 (0-6")

Lab Sample ID: 880-34317-8

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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		10/11/23 16:59	10/12/23 14:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/23 16:59	10/12/23 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				10/11/23 16:59	10/12/23 14:54	1
1,4-Difluorobenzene (Surr)	100		70 - 130				10/11/23 16:59	10/12/23 14:54	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			10/12/23 14:54	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			10/12/23 15:42	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		10/12/23 10:42	10/12/23 15:42	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 15:42	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/12/23 10:42	10/12/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				10/12/23 10:42	10/12/23 15:42	1
o-Terphenyl	124		70 - 130				10/12/23 10:42	10/12/23 15:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		4.96		mg/Kg			10/15/23 14:50	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

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)				
880-34317-1	H-1 (0-6")	97	92				
880-34317-1 MS	H-1 (0-6")	121	97				
880-34317-1 MSD	H-1 (0-6")	111	91				
880-34317-2	H-2 (0-6")	106	98				
880-34317-3	H-3 (0-6")	107	101				
880-34317-4	H-4 (0-6")	98	96				
880-34317-5	H-5 (0-6")	99	100				
880-34317-6	H-6 (0-6")	103	102				
880-34317-7	H-7 (0-6")	106	99				
880-34317-8	H-8 (0-6")	108	100				
LCS 880-64507/1-A	Lab Control Sample	103	96				
LCSD 880-64507/2-A	Lab Control Sample Dup	116	94				
MB 880-64507/5-A	Method Blank	111	123				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-34316-A-1-C MS	Matrix Spike	137 S1+	115				
880-34316-A-1-D MSD	Matrix Spike Duplicate	132 S1+	111				
880-34317-1	H-1 (0-6")	129	121				
880-34317-2	H-2 (0-6")	160 S1+	148 S1+				
880-34317-3	H-3 (0-6")	132 S1+	124				
880-34317-4	H-4 (0-6")	133 S1+	128				
880-34317-5	H-5 (0-6")	146 S1+	138 S1+				
880-34317-6	H-6 (0-6")	131 S1+	123				
880-34317-7	H-7 (0-6")	134 S1+	127				
880-34317-8	H-8 (0-6")	131 S1+	124				
LCS 880-64532/2-A	Lab Control Sample	117	136 S1+				
LCSD 880-64532/3-A	Lab Control Sample Dup	82	88				
MB 880-64532/1-A	Method Blank	196 S1+	182 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64507/5-A

Matrix: Solid

Analysis Batch: 64524

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/23 16:59	10/12/23 12:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 16:59	10/12/23 12:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/11/23 16:59	10/12/23 12:01	1
1,4-Difluorobenzene (Surr)	123		70 - 130	10/11/23 16:59	10/12/23 12:01	1

Lab Sample ID: LCS 880-64507/1-A

Matrix: Solid

Analysis Batch: 64524

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1141		mg/Kg		114	70 - 130
Toluene	0.100	0.09752		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1096		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2067		mg/Kg		103	70 - 130
o-Xylene	0.100	0.09835		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-64507/2-A

Matrix: Solid

Analysis Batch: 64524

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64507

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1044		mg/Kg		104	70 - 130	9	35
Toluene	0.100	0.09198		mg/Kg		92	70 - 130	6	35
Ethylbenzene	0.100	0.09293		mg/Kg		93	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.1806		mg/Kg		90	70 - 130	13	35
o-Xylene	0.100	0.08517		mg/Kg		85	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-34317-1 MS

Matrix: Solid

Analysis Batch: 64524

Client Sample ID: H-1 (0-6")

Prep Type: Total/NA

Prep Batch: 64507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.1080		mg/Kg		108	70 - 130
Toluene	<0.00202	U	0.100	0.09138		mg/Kg		91	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-34317-1 MS
Matrix: Solid
Analysis Batch: 64524

Client Sample ID: H-1 (0-6")
Prep Type: Total/NA
Prep Batch: 64507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.09338		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1900		mg/Kg		95	70 - 130
o-Xylene	<0.00202	U	0.100	0.09359		mg/Kg		93	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	121		70 - 130						
1,4-Difluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: 880-34317-1 MSD
Matrix: Solid
Analysis Batch: 64524

Client Sample ID: H-1 (0-6")
Prep Type: Total/NA
Prep Batch: 64507

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0998	0.09229		mg/Kg		92	70 - 130	16	35
Toluene	<0.00202	U	0.0998	0.08541		mg/Kg		86	70 - 130	7	35
Ethylbenzene	<0.00202	U	0.0998	0.08788		mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.2014		mg/Kg		101	70 - 130	6	35
o-Xylene	<0.00202	U	0.0998	0.09323		mg/Kg		93	70 - 130	0	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	111		70 - 130								
1,4-Difluorobenzene (Surr)	91		70 - 130								

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

Lab Sample ID: MB 880-64532/1-A
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64532

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		10/12/23 08:00	10/12/23 08:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/12/23 08:00	10/12/23 08:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/12/23 08:00	10/12/23 08:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	196	S1+	70 - 130						
o-Terphenyl	182	S1+	70 - 130						

Lab Sample ID: LCS 880-64532/2-A
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	843.0		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	878.5		mg/Kg		88	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-64532/2-A
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64532

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: LCSD 880-64532/3-A
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64532

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	798.2		mg/Kg		80	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	772.7		mg/Kg		77	70 - 130	13	20
Surrogate	%Recovery	LCSD	LCSD						
1-Chlorooctane	82								
o-Terphenyl	88								

Lab Sample ID: 880-34316-A-1-C MS
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64532

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	991	946.5		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	60.5		991	1320		mg/Kg		127	70 - 130		
Surrogate	%Recovery	MS	MS								
1-Chlorooctane	137	S1+									
o-Terphenyl	115										

Lab Sample ID: 880-34316-A-1-D MSD
Matrix: Solid
Analysis Batch: 64515

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64532

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	991	919.0		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	60.5		991	1278		mg/Kg		123	70 - 130	3	20
Surrogate	%Recovery	MSD	MSD								
1-Chlorooctane	132	S1+									
o-Terphenyl	111										

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64568/1-A

Matrix: Solid

Analysis Batch: 64693

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/13/23 17:10	1

Lab Sample ID: LCS 880-64568/2-A

Matrix: Solid

Analysis Batch: 64693

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-64568/3-A

Matrix: Solid

Analysis Batch: 64693

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	251.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-34299-A-11-B MS

Matrix: Solid

Analysis Batch: 64693

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	282	F1	248	583.8	F1	mg/Kg		122	90 - 110

Lab Sample ID: 880-34299-A-11-C MSD

Matrix: Solid

Analysis Batch: 64693

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	282	F1	248	639.2	F1	mg/Kg		144	90 - 110	9	20

Lab Sample ID: MB 880-64571/1-A

Matrix: Solid

Analysis Batch: 64698

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/13/23 17:23	1

Lab Sample ID: LCS 880-64571/2-A

Matrix: Solid

Analysis Batch: 64698

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.3		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-64571/3-A

Matrix: Solid

Analysis Batch: 64698

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	233.6		mg/Kg		93	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-34317-1 MS

Client Sample ID: H-1 (0-6")

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 64698

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	87.5		248	336.9		mg/Kg		101	90 - 110

Lab Sample ID: 880-34317-1 MSD

Client Sample ID: H-1 (0-6")

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 64698

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	87.5		248	342.7		mg/Kg		103	90 - 110	2	20

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 64507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	5035	
880-34317-2	H-2 (0-6")	Total/NA	Solid	5035	
880-34317-3	H-3 (0-6")	Total/NA	Solid	5035	
880-34317-4	H-4 (0-6")	Total/NA	Solid	5035	
880-34317-5	H-5 (0-6")	Total/NA	Solid	5035	
880-34317-6	H-6 (0-6")	Total/NA	Solid	5035	
880-34317-7	H-7 (0-6")	Total/NA	Solid	5035	
880-34317-8	H-8 (0-6")	Total/NA	Solid	5035	
MB 880-64507/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64507/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64507/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34317-1 MS	H-1 (0-6")	Total/NA	Solid	5035	
880-34317-1 MSD	H-1 (0-6")	Total/NA	Solid	5035	

Analysis Batch: 64524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	8021B	64507
880-34317-2	H-2 (0-6")	Total/NA	Solid	8021B	64507
880-34317-3	H-3 (0-6")	Total/NA	Solid	8021B	64507
880-34317-4	H-4 (0-6")	Total/NA	Solid	8021B	64507
880-34317-5	H-5 (0-6")	Total/NA	Solid	8021B	64507
880-34317-6	H-6 (0-6")	Total/NA	Solid	8021B	64507
880-34317-7	H-7 (0-6")	Total/NA	Solid	8021B	64507
880-34317-8	H-8 (0-6")	Total/NA	Solid	8021B	64507
MB 880-64507/5-A	Method Blank	Total/NA	Solid	8021B	64507
LCS 880-64507/1-A	Lab Control Sample	Total/NA	Solid	8021B	64507
LCSD 880-64507/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64507
880-34317-1 MS	H-1 (0-6")	Total/NA	Solid	8021B	64507
880-34317-1 MSD	H-1 (0-6")	Total/NA	Solid	8021B	64507

Analysis Batch: 64669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-2	H-2 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-3	H-3 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-4	H-4 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-5	H-5 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-6	H-6 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-7	H-7 (0-6")	Total/NA	Solid	Total BTEX	
880-34317-8	H-8 (0-6")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 64515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-2	H-2 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-3	H-3 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-4	H-4 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-5	H-5 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-6	H-6 (0-6")	Total/NA	Solid	8015B NM	64532

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 64515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-7	H-7 (0-6")	Total/NA	Solid	8015B NM	64532
880-34317-8	H-8 (0-6")	Total/NA	Solid	8015B NM	64532
MB 880-64532/1-A	Method Blank	Total/NA	Solid	8015B NM	64532
LCS 880-64532/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64532
LCSD 880-64532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64532
880-34316-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	64532
880-34316-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64532

Prep Batch: 64532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-2	H-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-3	H-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-4	H-4 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-5	H-5 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-6	H-6 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-7	H-7 (0-6")	Total/NA	Solid	8015NM Prep	
880-34317-8	H-8 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-64532/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64532/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34316-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34316-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Total/NA	Solid	8015 NM	
880-34317-2	H-2 (0-6")	Total/NA	Solid	8015 NM	
880-34317-3	H-3 (0-6")	Total/NA	Solid	8015 NM	
880-34317-4	H-4 (0-6")	Total/NA	Solid	8015 NM	
880-34317-5	H-5 (0-6")	Total/NA	Solid	8015 NM	
880-34317-6	H-6 (0-6")	Total/NA	Solid	8015 NM	
880-34317-7	H-7 (0-6")	Total/NA	Solid	8015 NM	
880-34317-8	H-8 (0-6")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-8	H-8 (0-6")	Soluble	Solid	DI Leach	
MB 880-64568/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64568/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64568/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34299-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34299-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 64571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Soluble	Solid	DI Leach	
880-34317-2	H-2 (0-6")	Soluble	Solid	DI Leach	
880-34317-3	H-3 (0-6")	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 64571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-4	H-4 (0-6")	Soluble	Solid	DI Leach	
880-34317-5	H-5 (0-6")	Soluble	Solid	DI Leach	
880-34317-6	H-6 (0-6")	Soluble	Solid	DI Leach	
880-34317-7	H-7 (0-6")	Soluble	Solid	DI Leach	
MB 880-64571/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64571/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64571/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34317-1 MS	H-1 (0-6")	Soluble	Solid	DI Leach	
880-34317-1 MSD	H-1 (0-6")	Soluble	Solid	DI Leach	

Analysis Batch: 64693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-8	H-8 (0-6")	Soluble	Solid	300.0	64568
MB 880-64568/1-A	Method Blank	Soluble	Solid	300.0	64568
LCS 880-64568/2-A	Lab Control Sample	Soluble	Solid	300.0	64568
LCSD 880-64568/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64568
880-34299-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	64568
880-34299-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64568

Analysis Batch: 64698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34317-1	H-1 (0-6")	Soluble	Solid	300.0	64571
880-34317-2	H-2 (0-6")	Soluble	Solid	300.0	64571
880-34317-3	H-3 (0-6")	Soluble	Solid	300.0	64571
880-34317-4	H-4 (0-6")	Soluble	Solid	300.0	64571
880-34317-5	H-5 (0-6")	Soluble	Solid	300.0	64571
880-34317-6	H-6 (0-6")	Soluble	Solid	300.0	64571
880-34317-7	H-7 (0-6")	Soluble	Solid	300.0	64571
MB 880-64571/1-A	Method Blank	Soluble	Solid	300.0	64571
LCS 880-64571/2-A	Lab Control Sample	Soluble	Solid	300.0	64571
LCSD 880-64571/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64571
880-34317-1 MS	H-1 (0-6")	Soluble	Solid	300.0	64571
880-34317-1 MSD	H-1 (0-6")	Soluble	Solid	300.0	64571

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Client Sample ID: H-1 (0-6")
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34317-1
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			4.96 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 12:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 12:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 12:46	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:06	CH	EET MID

Client Sample ID: H-2 (0-6")
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34317-2
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	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 12:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 13:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 13:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:22	CH	EET MID

Client Sample ID: H-3 (0-6")
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34317-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 13:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:27	CH	EET MID

Client Sample ID: H-4 (0-6")
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34317-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 13:32	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-6")

Lab Sample ID: 880-34317-4

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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			64657	10/12/23 13:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 13:52	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:32	CH	EET MID

Client Sample ID: H-5 (0-6")

Lab Sample ID: 880-34317-5

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 14:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 14:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:37	CH	EET MID

Client Sample ID: H-6 (0-6")

Lab Sample ID: 880-34317-6

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 14:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 14:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:52	CH	EET MID

Client Sample ID: H-7 (0-6")

Lab Sample ID: 880-34317-7

Date Collected: 10/10/23 00:00

Matrix: Solid

Date Received: 10/11/23 14:19

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	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 14:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 14:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 14:58	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Client Sample ID: H-7 (0-6")
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34317-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	64571	10/12/23 14:18	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64698	10/13/23 18:57	CH	EET MID

Client Sample ID: H-8 (0-6")
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 14:19

Lab Sample ID: 880-34317-8
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	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 14:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64669	10/12/23 14:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			64657	10/12/23 15:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64532	10/12/23 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64515	10/12/23 15:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	64568	10/12/23 14:13	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64693	10/15/23 14:50	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: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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

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Method Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-34317-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34317-1	H-1 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-2	H-2 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-3	H-3 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-4	H-4 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-5	H-5 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-6	H-6 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-7	H-7 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19
880-34317-8	H-8 (0-6")	Solid	10/10/23 00:00	10/11/23 14:19

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880-34317 Chain of Custody

Page 1 of 1

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34317-1

SDG Number: Lea County, New Mexico

Login Number: 34317

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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.	N/A	
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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 1/30/2024 10:18:55 AM Revision 1

JOB DESCRIPTION

Raptor West 3 State #2H
Lea County, New Mexico

JOB NUMBER

880-37779-1

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



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

Generated
1/30/2024 10:18:55 AM
Revision 1

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-37779-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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)

Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
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Case Narrative

Client: Carmona Resources
Project: Raptor West 3 State #2H

Job ID: 880-37779-1

Job ID: 880-37779-1

Eurofins Midland

Job Narrative
880-37779-1REVISION

The report being provided is a revision of the original report sent on 1/15/2024. The report (revision 1) is being revised due to Revision needed due to missing COC pages.

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 1/10/2024 2:55 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 -2.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (1.5') (880-37779-1), CS-2 (1.5') (880-37779-2), CS-3 (1.5') (880-37779-3), CS-4 (1.5') (880-37779-4), CS-5 (1.5') (880-37779-5), CS-6 (1.5') (880-37779-6), CS-7 (1.5') (880-37779-7), CS-8 (1.5') (880-37779-8), CS-9 (1.5') (880-37779-9), CS-10 (1.5') (880-37779-10), CS-11 (1.5') (880-37779-11), CS-12 (1.5') (880-37779-12), CS-13 (2.0') (880-37779-13), CS-14 (2.0') (880-37779-14), CS-15 (2.0') (880-37779-15), CS-16 (2.0') (880-37779-16), CS-17 (2.0') (880-37779-17), CS-18 (2.0') (880-37779-18), CS-19 (2.0') (880-37779-19), CS-20 (2.0') (880-37779-20), CS-21 (2.0') (880-37779-21), CS-22 (2.0') (880-37779-22), CS-23 (2.0') (880-37779-23), CS-24 (2.0') (880-37779-24), CS-25 (2.0') (880-37779-25), CS-26 (2.0') (880-37779-26), CS-27 (2.0') (880-37779-27), CS-28 (2.0') (880-37779-28), CS-29 (2.0') (880-37779-29), CS-30 (2.0') (880-37779-30), CS-31 (2.0') (880-37779-31), CS-32 (2.0') (880-37779-32), CS-33 (2.0') (880-37779-33), CS-34 (2.0') (880-37779-34), CS-35 (2.0') (880-37779-35), CS-36 (2.0') (880-37779-36), CS-37 (2.0') (880-37779-37), CS-38 (2.0') (880-37779-38), CS-39 (2.0') (880-37779-39), CS-40 (2.0') (880-37779-40), CS-41 (2.0') (880-37779-41), CS-42 (2.0') (880-37779-42), CS-43 (2.0') (880-37779-43), CS-44 (2.0') (880-37779-44), CS-45 (2.0') (880-37779-45), CS-46 (2.0') (880-37779-46), CS-47 (2.0') (880-37779-47), CS-48 (2.0') (880-37779-48), CS-49 (2.0') (880-37779-49), CS-50 (2.0') (880-37779-50), SW-1 (1.5') (880-37779-51), SW-2 (1.5') (880-37779-52), SW-3 (1.5') (880-37779-53), SW-4 (0.5') (880-37779-54), SW-5 (2.0') (880-37779-55), SW-6 (2.0') (880-37779-56), SW-7 (2.0') (880-37779-57), SW-8 (2.0') (880-37779-58), SW-9 (2.0') (880-37779-59), SW-10 (2.0') (880-37779-60), SW-11 (2.0') (880-37779-61), SW-12 (2.0') (880-37779-62), SW-13 (2.0') (880-37779-63), SW-14 (2.0') (880-37779-64), SW-15 (2.0') (880-37779-65) and SW-16 (2.0') (880-37779-66).

GC VOA

Method 8021B: The method blank for preparation batch 880-70596 and analytical batch 880-70627 contained o-Xylene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-8 (1.5') (880-37779-8), CS-15 (2.0') (880-37779-15), CS-16 (2.0') (880-37779-16), CS-17 (2.0') (880-37779-17), CS-18 (2.0') (880-37779-18), CS-25 (2.0') (880-37779-25), CS-26 (2.0') (880-37779-26), CS-27 (2.0') (880-37779-27), CS-32 (2.0') (880-37779-32), CS-36 (2.0') (880-37779-36), CS-39 (2.0') (880-37779-39), CS-42 (2.0') (880-37779-42), CS-43 (2.0') (880-37779-43), CS-44 (2.0') (880-37779-44), CS-45 (2.0') (880-37779-45), CS-46 (2.0') (880-37779-46), CS-47 (2.0') (880-37779-47), CS-48 (2.0') (880-37779-48), SW-2 (1.5') (880-37779-52), SW-3 (1.5') (880-37779-53), SW-5 (2.0') (880-37779-55), SW-7 (2.0') (880-37779-57), (CCV 880-70755/95), (LCS 880-70594/1-A), (LCSD 880-70589/2-A), (880-37779-A-21-A MS) and (880-37779-A-21-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-70589, 880-70591 and 880-70594 and analytical batch 880-70755 were outside control limits. Non-homogeneity is suspected because the associated laboratory control

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Case Narrative

Client: Carmona Resources
Project: Raptor West 3 State #2H

Job ID: 880-37779-1

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sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-70589 and 880-70591 and analytical batch 880-70755 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-70591/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-23 (2.0') (880-37779-23). 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-70593 and analytical batch 880-70523 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-70593/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-37779-A-41-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70613 and analytical batch 880-70623 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 surrogate recovery for the blank associated with preparation batch 880-70610 and analytical batch 880-70617 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (1.5') (880-37779-1), CS-2 (1.5') (880-37779-2), CS-3 (1.5') (880-37779-3), CS-5 (1.5') (880-37779-5), CS-7 (1.5') (880-37779-7), CS-10 (1.5') (880-37779-10), CS-11 (1.5') (880-37779-11), CS-12 (1.5') (880-37779-12), CS-13 (2.0') (880-37779-13), CS-14 (2.0') (880-37779-14), CS-16 (2.0') (880-37779-16), CS-17 (2.0') (880-37779-17), CS-18 (2.0') (880-37779-18), CS-19 (2.0') (880-37779-19), CS-20 (2.0') (880-37779-20) and (880-37779-A-1-H MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-70610 and analytical batch 880-70617 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-70611 and analytical batch 880-70619 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-70611/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-70723 and analytical batch 880-70705 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-11 (2.0') (880-37779-61), SW-12 (2.0') (880-37779-62), SW-13 (2.0') (880-37779-63), SW-14 (2.0') (880-37779-64), (880-37779-A-61-K MS) and (880-37779-A-61-L MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-70723 and analytical batch 880-70705 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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Case Narrative

Client: Carmona Resources
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Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70723 and analytical batch 880-70705 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 continuing calibration verification (CCV) associated with batch 880-70705 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) due to misinjection. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-70705/57).

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-70612 and analytical batch 880-70696 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-70592 and analytical batch 880-70632 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-70608 and analytical batch 880-70635 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-70713 and analytical batch 880-70727 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-37779-1

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		01/10/24 15:43	01/12/24 15:53	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		01/10/24 15:43	01/12/24 15:53	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		01/10/24 15:43	01/12/24 15:53	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399		mg/Kg		01/10/24 15:43	01/12/24 15:53	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		01/10/24 15:43	01/12/24 15:53	1
Xylenes, Total	<0.00399	U F2 F1	0.00399		mg/Kg		01/10/24 15:43	01/12/24 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	01/10/24 15:43	01/12/24 15:53	1
1,4-Difluorobenzene (Surr)	77		70 - 130	01/10/24 15:43	01/12/24 15:53	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			01/12/24 15:53	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			01/11/24 10:33	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		01/10/24 16:49	01/11/24 10:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		01/10/24 16:49	01/11/24 10:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/24 16:49	01/11/24 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130	01/10/24 16:49	01/11/24 10:33	1
o-Terphenyl	129		70 - 130	01/10/24 16:49	01/11/24 10:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.8		4.98		mg/Kg			01/11/24 15:41	1

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-37779-2

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 16:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 16:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 16:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:43	01/12/24 16:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 16:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:43	01/12/24 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	01/10/24 15:43	01/12/24 16:19	1
1,4-Difluorobenzene (Surr)	126		70 - 130	01/10/24 15:43	01/12/24 16:19	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-37779-2

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/12/24 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/11/24 11:39	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		01/10/24 16:49	01/11/24 11:39	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 11:39	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 11:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130				01/10/24 16:49	01/11/24 11:39	1
o-Terphenyl	132	S1+	70 - 130				01/10/24 16:49	01/11/24 11:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.3		5.00		mg/Kg			01/11/24 15:56	1

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-37779-3

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 16:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 16:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 16:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 16:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 16:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/10/24 15:43	01/12/24 16:46	1
1,4-Difluorobenzene (Surr)	117		70 - 130				01/10/24 15:43	01/12/24 16:46	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			01/12/24 16:46	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			01/11/24 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/10/24 16:49	01/11/24 12:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/10/24 16:49	01/11/24 12:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-37779-3

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/10/24 16:49	01/11/24 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130				01/10/24 16:49	01/11/24 12:01	1
o-Terphenyl	135	S1+	70 - 130				01/10/24 16:49	01/11/24 12:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.6		4.95		mg/Kg			01/11/24 16:01	1

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-37779-4

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 17:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 17:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 17:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 17:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 17:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/10/24 15:43	01/12/24 17:12	1
1,4-Difluorobenzene (Surr)	128		70 - 130				01/10/24 15:43	01/12/24 17:12	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			01/12/24 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/11/24 12:22	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		01/10/24 16:49	01/11/24 12:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/10/24 16:49	01/11/24 12:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/10/24 16:49	01/11/24 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				01/10/24 16:49	01/11/24 12:22	1
o-Terphenyl	103		70 - 130				01/10/24 16:49	01/11/24 12:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.2		4.99		mg/Kg			01/11/24 16:06	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-5 (1.5')

Lab Sample ID: 880-37779-5

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 17:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:43	01/12/24 17:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:43	01/12/24 17:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/10/24 15:43	01/12/24 17:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:43	01/12/24 17:38	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/10/24 15:43	01/12/24 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	01/10/24 15:43	01/12/24 17:38	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/10/24 15:43	01/12/24 17:38	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			01/12/24 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/11/24 12:44	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	<50.1	U	50.1		mg/Kg		01/10/24 16:49	01/11/24 12:44	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/10/24 16:49	01/11/24 12:44	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/10/24 16:49	01/11/24 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	01/10/24 16:49	01/11/24 12:44	1
o-Terphenyl	124		70 - 130	01/10/24 16:49	01/11/24 12:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.8		5.04		mg/Kg			01/11/24 16:11	1

Client Sample ID: CS-6 (1.5')

Lab Sample ID: 880-37779-6

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 18:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 18:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 18:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:43	01/12/24 18:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 18:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:43	01/12/24 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/10/24 15:43	01/12/24 18:05	1
1,4-Difluorobenzene (Surr)	125		70 - 130	01/10/24 15:43	01/12/24 18:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-6 (1.5')

Lab Sample ID: 880-37779-6

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/12/24 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/11/24 13:06	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		01/10/24 16:49	01/11/24 13:06	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 13:06	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				01/10/24 16:49	01/11/24 13:06	1
o-Terphenyl	101		70 - 130				01/10/24 16:49	01/11/24 13:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.4		4.97		mg/Kg			01/11/24 16:27	1

Client Sample ID: CS-7 (1.5')

Lab Sample ID: 880-37779-7

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 18:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 18:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 18:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:43	01/12/24 18:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 18:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:43	01/12/24 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				01/10/24 15:43	01/12/24 18:30	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/10/24 15:43	01/12/24 18:30	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			01/12/24 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/11/24 13:28	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	<50.3	U	50.3		mg/Kg		01/10/24 16:49	01/11/24 13:28	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/10/24 16:49	01/11/24 13:28	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (1.5')

Lab Sample ID: 880-37779-7

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/10/24 16:49	01/11/24 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				01/10/24 16:49	01/11/24 13:28	1
o-Terphenyl	125		70 - 130				01/10/24 16:49	01/11/24 13:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.2		4.96		mg/Kg			01/11/24 16:54	1

Client Sample ID: CS-8 (1.5')

Lab Sample ID: 880-37779-8

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 18:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 18:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 18:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:43	01/12/24 18:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 18:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:43	01/12/24 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				01/10/24 15:43	01/12/24 18:56	1
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130				01/10/24 15:43	01/12/24 18:56	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			01/12/24 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/11/24 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/10/24 16:49	01/11/24 13:50	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/10/24 16:49	01/11/24 13:50	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/10/24 16:49	01/11/24 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				01/10/24 16:49	01/11/24 13:50	1
o-Terphenyl	105		70 - 130				01/10/24 16:49	01/11/24 13:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.5		4.97		mg/Kg			01/11/24 16:59	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-9 (1.5')

Lab Sample ID: 880-37779-9

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 19:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 19:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 19:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 19:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 19:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/10/24 15:43	01/12/24 19:22	1
1,4-Difluorobenzene (Surr)	125		70 - 130	01/10/24 15:43	01/12/24 19:22	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			01/12/24 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/11/24 14:12	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	<50.5	U	50.5		mg/Kg		01/10/24 16:49	01/11/24 14:12	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/10/24 16:49	01/11/24 14:12	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/10/24 16:49	01/11/24 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	01/10/24 16:49	01/11/24 14:12	1
o-Terphenyl	113		70 - 130	01/10/24 16:49	01/11/24 14:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.0		5.05		mg/Kg			01/11/24 17:05	1

Client Sample ID: CS-10 (1.5')

Lab Sample ID: 880-37779-10

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 19:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 19:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 19:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 19:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 19:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	01/10/24 15:43	01/12/24 19:48	1
1,4-Difluorobenzene (Surr)	127		70 - 130	01/10/24 15:43	01/12/24 19:48	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-10 (1.5')

Lab Sample ID: 880-37779-10

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/12/24 19:48	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			01/11/24 14:33	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	<49.9	U	49.9		mg/Kg		01/10/24 16:49	01/11/24 14:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/24 16:49	01/11/24 14:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/24 16:49	01/11/24 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				01/10/24 16:49	01/11/24 14:33	1
o-Terphenyl	114		70 - 130				01/10/24 16:49	01/11/24 14:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.5		5.02		mg/Kg			01/11/24 17:10	1

Client Sample ID: CS-11 (1.5')

Lab Sample ID: 880-37779-11

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 21:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 21:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 21:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:43	01/12/24 21:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 21:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:43	01/12/24 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/10/24 15:43	01/12/24 21:33	1
1,4-Difluorobenzene (Surr)	112		70 - 130				01/10/24 15:43	01/12/24 21:33	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			01/12/24 21:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/11/24 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/10/24 16:49	01/11/24 16:57	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/10/24 16:49	01/11/24 16:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-11 (1.5')

Lab Sample ID: 880-37779-11

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/10/24 16:49	01/11/24 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				01/10/24 16:49	01/11/24 16:57	1
o-Terphenyl	125		70 - 130				01/10/24 16:49	01/11/24 16:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.2	F1	5.01		mg/Kg			01/11/24 17:15	1

Client Sample ID: CS-12 (1.5')

Lab Sample ID: 880-37779-12

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0444		0.00200		mg/Kg		01/10/24 15:43	01/12/24 22:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 22:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 22:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/10/24 15:43	01/12/24 22:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 22:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/10/24 15:43	01/12/24 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				01/10/24 15:43	01/12/24 22:00	1
1,4-Difluorobenzene (Surr)	127		70 - 130				01/10/24 15:43	01/12/24 22:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0444		0.00401		mg/Kg			01/12/24 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/11/24 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/10/24 16:49	01/11/24 17:18	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/10/24 16:49	01/11/24 17:18	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/10/24 16:49	01/11/24 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				01/10/24 16:49	01/11/24 17:18	1
o-Terphenyl	127		70 - 130				01/10/24 16:49	01/11/24 17:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.6		4.99		mg/Kg			01/11/24 17:30	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-13 (2.0')

Lab Sample ID: 880-37779-13

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 22:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 22:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 22:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 22:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 22:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	01/10/24 15:43	01/12/24 22:26	1
1,4-Difluorobenzene (Surr)	126		70 - 130	01/10/24 15:43	01/12/24 22:26	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			01/12/24 22:26	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			01/11/24 17:40	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		01/10/24 16:49	01/11/24 17:40	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 17:40	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	01/10/24 16:49	01/11/24 17:40	1
o-Terphenyl	117		70 - 130	01/10/24 16:49	01/11/24 17:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.7		4.97		mg/Kg			01/11/24 17:35	1

Client Sample ID: CS-14 (2.0')

Lab Sample ID: 880-37779-14

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 22:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 22:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 22:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 22:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/12/24 22:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/12/24 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	01/10/24 15:43	01/12/24 22:53	1
1,4-Difluorobenzene (Surr)	81		70 - 130	01/10/24 15:43	01/12/24 22:53	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-14 (2.0')

Lab Sample ID: 880-37779-14

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/12/24 22:53	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			01/11/24 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 18:02	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 18:02	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				01/10/24 16:49	01/11/24 18:02	1
o-Terphenyl	132	S1+	70 - 130				01/10/24 16:49	01/11/24 18:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7		4.95		mg/Kg			01/11/24 17:51	1

Client Sample ID: CS-15 (2.0')

Lab Sample ID: 880-37779-15

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 23:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 23:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 23:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:43	01/12/24 23:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 23:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:43	01/12/24 23:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/10/24 15:43	01/12/24 23:19	1
1,4-Difluorobenzene (Surr)	138	S1+	70 - 130				01/10/24 15:43	01/12/24 23:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/12/24 23:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/11/24 18:24	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	<50.5	U	50.5		mg/Kg		01/10/24 16:49	01/11/24 18:24	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/10/24 16:49	01/11/24 18:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-15 (2.0')

Lab Sample ID: 880-37779-15

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/10/24 16:49	01/11/24 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				01/10/24 16:49	01/11/24 18:24	1
o-Terphenyl	103		70 - 130				01/10/24 16:49	01/11/24 18:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.6		4.97		mg/Kg			01/11/24 17:56	1

Client Sample ID: CS-16 (2.0')

Lab Sample ID: 880-37779-16

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/12/24 23:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 23:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 23:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:43	01/12/24 23:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:43	01/12/24 23:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:43	01/12/24 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				01/10/24 15:43	01/12/24 23:44	1
1,4-Difluorobenzene (Surr)	154	S1+	70 - 130				01/10/24 15:43	01/12/24 23:44	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			01/12/24 23:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/11/24 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/10/24 16:49	01/11/24 18:46	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/10/24 16:49	01/11/24 18:46	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/10/24 16:49	01/11/24 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				01/10/24 16:49	01/11/24 18:46	1
o-Terphenyl	137	S1+	70 - 130				01/10/24 16:49	01/11/24 18:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.2		5.00		mg/Kg			01/11/24 18:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-17 (2.0')

Lab Sample ID: 880-37779-17

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/13/24 00:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/13/24 00:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/13/24 00:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/13/24 00:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/13/24 00:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/13/24 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/10/24 15:43	01/13/24 00:10	1
1,4-Difluorobenzene (Surr)	161	S1+	70 - 130	01/10/24 15:43	01/13/24 00:10	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			01/13/24 00:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/11/24 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/24 16:49	01/11/24 19:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/24 16:49	01/11/24 19:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/24 16:49	01/11/24 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130	01/10/24 16:49	01/11/24 19:08	1
o-Terphenyl	135	S1+	70 - 130	01/10/24 16:49	01/11/24 19:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.0		5.00		mg/Kg			01/11/24 18:07	1

Client Sample ID: CS-18 (2.0')

Lab Sample ID: 880-37779-18

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/13/24 00:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/13/24 00:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/13/24 00:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/13/24 00:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:43	01/13/24 00:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:43	01/13/24 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	01/10/24 15:43	01/13/24 00:37	1
1,4-Difluorobenzene (Surr)	162	S1+	70 - 130	01/10/24 15:43	01/13/24 00:37	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-18 (2.0')

Lab Sample ID: 880-37779-18

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/13/24 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	<49.6	U	49.6		mg/Kg			01/11/24 19:29	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	<49.6	U	49.6		mg/Kg		01/10/24 16:49	01/11/24 19:29	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/10/24 16:49	01/11/24 19:29	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/10/24 16:49	01/11/24 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				01/10/24 16:49	01/11/24 19:29	1
o-Terphenyl	135	S1+	70 - 130				01/10/24 16:49	01/11/24 19:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		4.99		mg/Kg			01/11/24 18:12	1

Client Sample ID: CS-19 (2.0')

Lab Sample ID: 880-37779-19

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/13/24 01:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/13/24 01:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/13/24 01:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:43	01/13/24 01:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/13/24 01:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:43	01/13/24 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/10/24 15:43	01/13/24 01:03	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130				01/10/24 15:43	01/13/24 01:03	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			01/13/24 01:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/11/24 19:51	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	<49.6	U	49.6		mg/Kg		01/10/24 16:49	01/11/24 19:51	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/10/24 16:49	01/11/24 19:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-19 (2.0')

Lab Sample ID: 880-37779-19

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/10/24 16:49	01/11/24 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				01/10/24 16:49	01/11/24 19:51	1
o-Terphenyl	124		70 - 130				01/10/24 16:49	01/11/24 19:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.7		5.04		mg/Kg			01/11/24 18:17	1

Client Sample ID: CS-20 (2.0')

Lab Sample ID: 880-37779-20

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:43	01/13/24 01:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/13/24 01:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/13/24 01:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/10/24 15:43	01/13/24 01:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/13/24 01:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/10/24 15:43	01/13/24 01:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				01/10/24 15:43	01/13/24 01:29	1
1,4-Difluorobenzene (Surr)	111		70 - 130				01/10/24 15:43	01/13/24 01:29	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			01/13/24 01:29	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			01/11/24 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 20:13	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 20:13	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 16:49	01/11/24 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				01/10/24 16:49	01/11/24 20:13	1
o-Terphenyl	120		70 - 130				01/10/24 16:49	01/11/24 20:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.1		4.97		mg/Kg			01/11/24 18:22	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-21 (2.0')

Lab Sample ID: 880-37779-21

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00310	F1	0.00199		mg/Kg		01/10/24 15:45	01/13/24 05:23	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		01/10/24 15:45	01/13/24 05:23	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		01/10/24 15:45	01/13/24 05:23	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		01/10/24 15:45	01/13/24 05:23	1
o-Xylene	0.00238	F2 F1	0.00199		mg/Kg		01/10/24 15:45	01/13/24 05:23	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		01/10/24 15:45	01/13/24 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	01/10/24 15:45	01/13/24 05:23	1
1,4-Difluorobenzene (Surr)	75		70 - 130	01/10/24 15:45	01/13/24 05:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00548		0.00398		mg/Kg			01/13/24 05:23	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			01/11/24 10:33	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	<49.8	U	49.8		mg/Kg		01/10/24 16:52	01/11/24 10:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/10/24 16:52	01/11/24 10:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/10/24 16:52	01/11/24 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	01/10/24 16:52	01/11/24 10:33	1
o-Terphenyl	102		70 - 130	01/10/24 16:52	01/11/24 10:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.2		4.98		mg/Kg			01/11/24 19:03	1

Client Sample ID: CS-22 (2.0')

Lab Sample ID: 880-37779-22

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 05:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 05:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 05:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:45	01/13/24 05:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 05:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:45	01/13/24 05:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	01/10/24 15:45	01/13/24 05:49	1
1,4-Difluorobenzene (Surr)	128		70 - 130	01/10/24 15:45	01/13/24 05:49	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-22 (2.0')

Lab Sample ID: 880-37779-22

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/13/24 05:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/11/24 11:39	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	<50.5	U	50.5		mg/Kg		01/10/24 16:52	01/11/24 11:39	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/10/24 16:52	01/11/24 11:39	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/10/24 16:52	01/11/24 11:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				01/10/24 16:52	01/11/24 11:39	1
o-Terphenyl	105		70 - 130				01/10/24 16:52	01/11/24 11:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.1		5.00		mg/Kg			01/11/24 19:19	1

Client Sample ID: CS-23 (2.0')

Lab Sample ID: 880-37779-23

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 06:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 06:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 06:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:45	01/13/24 06:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 06:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:45	01/13/24 06:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				01/10/24 15:45	01/13/24 06:15	1
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130				01/10/24 15:45	01/13/24 06:15	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			01/13/24 06:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/11/24 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/10/24 16:52	01/11/24 12:01	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/10/24 16:52	01/11/24 12:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-23 (2.0')

Lab Sample ID: 880-37779-23

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/10/24 16:52	01/11/24 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				01/10/24 16:52	01/11/24 12:01	1
o-Terphenyl	100		70 - 130				01/10/24 16:52	01/11/24 12:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.9		4.95		mg/Kg			01/11/24 19:24	1

Client Sample ID: CS-24 (2.0')

Lab Sample ID: 880-37779-24

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 06:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 06:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 06:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 06:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 06:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 06:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				01/10/24 15:45	01/13/24 06:41	1
1,4-Difluorobenzene (Surr)	123		70 - 130				01/10/24 15:45	01/13/24 06:41	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			01/13/24 06:41	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			01/11/24 12:22	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		01/10/24 16:52	01/11/24 12:22	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/10/24 16:52	01/11/24 12:22	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 16:52	01/11/24 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				01/10/24 16:52	01/11/24 12:22	1
o-Terphenyl	104		70 - 130				01/10/24 16:52	01/11/24 12:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.7		4.99		mg/Kg			01/11/24 19:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-25 (2.0')

Lab Sample ID: 880-37779-25

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 07:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 07:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 07:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 07:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 07:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 07:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	01/10/24 15:45	01/13/24 07:08	1
1,4-Difluorobenzene (Surr)	139	S1+	70 - 130	01/10/24 15:45	01/13/24 07:08	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			01/13/24 07:08	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			01/11/24 12:44	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		01/10/24 16:52	01/11/24 12:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/24 16:52	01/11/24 12:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/24 16:52	01/11/24 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	01/10/24 16:52	01/11/24 12:44	1
o-Terphenyl	101		70 - 130	01/10/24 16:52	01/11/24 12:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.8		5.04		mg/Kg			01/11/24 19:34	1

Client Sample ID: CS-26 (2.0')

Lab Sample ID: 880-37779-26

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 07:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 07:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 07:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:45	01/13/24 07:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 07:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:45	01/13/24 07:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	01/10/24 15:45	01/13/24 07:35	1
1,4-Difluorobenzene (Surr)	138	S1+	70 - 130	01/10/24 15:45	01/13/24 07:35	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-26 (2.0')

Lab Sample ID: 880-37779-26

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/13/24 07:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/11/24 13:06	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		01/10/24 16:52	01/11/24 13:06	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/10/24 16:52	01/11/24 13:06	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/10/24 16:52	01/11/24 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				01/10/24 16:52	01/11/24 13:06	1
o-Terphenyl	99		70 - 130				01/10/24 16:52	01/11/24 13:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		4.97		mg/Kg			01/11/24 19:49	1

Client Sample ID: CS-27 (2.0')

Lab Sample ID: 880-37779-27

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 08:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 08:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 08:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:45	01/13/24 08:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 08:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:45	01/13/24 08:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				01/10/24 15:45	01/13/24 08:02	1
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130				01/10/24 15:45	01/13/24 08:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/13/24 08:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/11/24 13:28	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		01/10/24 16:52	01/11/24 13:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/24 16:52	01/11/24 13:28	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-27 (2.0')

Lab Sample ID: 880-37779-27

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/24 16:52	01/11/24 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				01/10/24 16:52	01/11/24 13:28	1
o-Terphenyl	107		70 - 130				01/10/24 16:52	01/11/24 13:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.9		4.96		mg/Kg			01/11/24 19:55	1

Client Sample ID: CS-28 (2.0')

Lab Sample ID: 880-37779-28

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 08:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 08:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 08:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:45	01/13/24 08:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 08:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:45	01/13/24 08:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				01/10/24 15:45	01/13/24 08:28	1
1,4-Difluorobenzene (Surr)	109		70 - 130				01/10/24 15:45	01/13/24 08:28	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			01/13/24 08:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/11/24 13:50	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	<50.3	U	50.3		mg/Kg		01/10/24 16:52	01/11/24 13:50	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/10/24 16:52	01/11/24 13:50	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/10/24 16:52	01/11/24 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				01/10/24 16:52	01/11/24 13:50	1
o-Terphenyl	101		70 - 130				01/10/24 16:52	01/11/24 13:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		4.97		mg/Kg			01/11/24 20:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-29 (2.0')

Lab Sample ID: 880-37779-29

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 08:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 08:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 08:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 08:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 08:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/10/24 15:45	01/13/24 08:55	1
1,4-Difluorobenzene (Surr)	112		70 - 130	01/10/24 15:45	01/13/24 08:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/24 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	<50.1	U	50.1		mg/Kg			01/11/24 14:12	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		01/10/24 16:52	01/11/24 14:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/10/24 16:52	01/11/24 14:12	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/10/24 16:52	01/11/24 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	01/10/24 16:52	01/11/24 14:12	1
o-Terphenyl	120		70 - 130	01/10/24 16:52	01/11/24 14:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.2		5.05		mg/Kg			01/11/24 20:05	1

Client Sample ID: CS-30 (2.0')

Lab Sample ID: 880-37779-30

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 09:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 09:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 09:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 09:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 09:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 09:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/10/24 15:45	01/13/24 09:22	1
1,4-Difluorobenzene (Surr)	123		70 - 130	01/10/24 15:45	01/13/24 09:22	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-30 (2.0')

Lab Sample ID: 880-37779-30

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/13/24 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/11/24 14:33	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	<50.5	U	50.5		mg/Kg		01/10/24 16:52	01/11/24 14:33	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/10/24 16:52	01/11/24 14:33	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/10/24 16:52	01/11/24 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				01/10/24 16:52	01/11/24 14:33	1
o-Terphenyl	105		70 - 130				01/10/24 16:52	01/11/24 14:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		5.02		mg/Kg			01/11/24 20:10	1

Client Sample ID: CS-31 (2.0')

Lab Sample ID: 880-37779-31

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 11:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:45	01/13/24 11:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:45	01/13/24 11:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/10/24 15:45	01/13/24 11:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:45	01/13/24 11:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/10/24 15:45	01/13/24 11:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				01/10/24 15:45	01/13/24 11:08	1
1,4-Difluorobenzene (Surr)	126		70 - 130				01/10/24 15:45	01/13/24 11:08	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			01/13/24 11:08	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			01/11/24 16:57	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		01/10/24 16:52	01/11/24 16:57	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/10/24 16:52	01/11/24 16:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-31 (2.0')

Lab Sample ID: 880-37779-31

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 16:52	01/11/24 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				01/10/24 16:52	01/11/24 16:57	1
o-Terphenyl	119		70 - 130				01/10/24 16:52	01/11/24 16:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.8		5.01		mg/Kg			01/11/24 20:15	1

Client Sample ID: CS-32 (2.0')

Lab Sample ID: 880-37779-32

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 11:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:45	01/13/24 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 11:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:45	01/13/24 11:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130				01/10/24 15:45	01/13/24 11:34	1
1,4-Difluorobenzene (Surr)	116		70 - 130				01/10/24 15:45	01/13/24 11:34	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			01/13/24 11:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.1		49.6		mg/Kg			01/11/24 17:18	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	<49.6	U	49.6		mg/Kg		01/10/24 16:52	01/11/24 17:18	1
Diesel Range Organics (Over C10-C28)	65.1		49.6		mg/Kg		01/10/24 16:52	01/11/24 17:18	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/10/24 16:52	01/11/24 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				01/10/24 16:52	01/11/24 17:18	1
o-Terphenyl	100		70 - 130				01/10/24 16:52	01/11/24 17:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.4		4.99		mg/Kg			01/11/24 20:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-33 (2.0')

Lab Sample ID: 880-37779-33

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 12:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 12:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 12:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/10/24 15:45	01/13/24 12:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 12:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/10/24 15:45	01/13/24 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/10/24 15:45	01/13/24 12:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/10/24 15:45	01/13/24 12:01	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			01/13/24 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.8		49.6		mg/Kg			01/11/24 17:40	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	<49.6	U	49.6		mg/Kg		01/10/24 16:52	01/11/24 17:40	1
Diesel Range Organics (Over C10-C28)	51.8		49.6		mg/Kg		01/10/24 16:52	01/11/24 17:40	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/10/24 16:52	01/11/24 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	01/10/24 16:52	01/11/24 17:40	1
o-Terphenyl	106		70 - 130	01/10/24 16:52	01/11/24 17:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.0		4.97		mg/Kg			01/11/24 20:36	1

Client Sample ID: CS-34 (2.0')

Lab Sample ID: 880-37779-34

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 12:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 12:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 12:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 12:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 12:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/10/24 15:45	01/13/24 12:27	1
1,4-Difluorobenzene (Surr)	113		70 - 130	01/10/24 15:45	01/13/24 12:27	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-34 (2.0')

Lab Sample ID: 880-37779-34

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/13/24 12:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.1		50.3		mg/Kg			01/11/24 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		01/10/24 16:52	01/11/24 18:02	1
Diesel Range Organics (Over C10-C28)	57.1		50.3		mg/Kg		01/10/24 16:52	01/11/24 18:02	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/10/24 16:52	01/11/24 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				01/10/24 16:52	01/11/24 18:02	1
o-Terphenyl	101		70 - 130				01/10/24 16:52	01/11/24 18:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.7		4.95		mg/Kg			01/11/24 20:51	1

Client Sample ID: CS-35 (2.0')

Lab Sample ID: 880-37779-35

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 12:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 12:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 12:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 12:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 12:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				01/10/24 15:45	01/13/24 12:54	1
1,4-Difluorobenzene (Surr)	88		70 - 130				01/10/24 15:45	01/13/24 12:54	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			01/13/24 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.8		50.1		mg/Kg			01/11/24 18:24	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		01/10/24 16:52	01/11/24 18:24	1
Diesel Range Organics (Over C10-C28)	60.8		50.1		mg/Kg		01/10/24 16:52	01/11/24 18:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-35 (2.0')

Lab Sample ID: 880-37779-35

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/10/24 16:52	01/11/24 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				01/10/24 16:52	01/11/24 18:24	1
o-Terphenyl	112		70 - 130				01/10/24 16:52	01/11/24 18:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.7		4.97		mg/Kg			01/11/24 20:56	1

Client Sample ID: CS-36 (2.0')

Lab Sample ID: 880-37779-36

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 13:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 13:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 13:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:45	01/13/24 13:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 13:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:45	01/13/24 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				01/10/24 15:45	01/13/24 13:20	1
1,4-Difluorobenzene (Surr)	139	S1+	70 - 130				01/10/24 15:45	01/13/24 13:20	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			01/13/24 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	195		50.4		mg/Kg			01/11/24 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/10/24 16:52	01/11/24 18:46	1
Diesel Range Organics (Over C10-C28)	195		50.4		mg/Kg		01/10/24 16:52	01/11/24 18:46	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 16:52	01/11/24 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				01/10/24 16:52	01/11/24 18:46	1
o-Terphenyl	99		70 - 130				01/10/24 16:52	01/11/24 18:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.7		5.00		mg/Kg			01/11/24 21:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-37 (2.0')

Lab Sample ID: 880-37779-37

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 13:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 13:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 13:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:45	01/13/24 13:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 13:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:45	01/13/24 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/10/24 15:45	01/13/24 13:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130	01/10/24 15:45	01/13/24 13:46	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			01/13/24 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	248		50.2		mg/Kg			01/11/24 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/10/24 16:52	01/11/24 19:08	1
Diesel Range Organics (Over C10-C28)	248		50.2		mg/Kg		01/10/24 16:52	01/11/24 19:08	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/10/24 16:52	01/11/24 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	01/10/24 16:52	01/11/24 19:08	1
o-Terphenyl	101		70 - 130	01/10/24 16:52	01/11/24 19:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.00		mg/Kg			01/11/24 21:06	1

Client Sample ID: CS-38 (2.0')

Lab Sample ID: 880-37779-38

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 14:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 14:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 14:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:45	01/13/24 14:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:45	01/13/24 14:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:45	01/13/24 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/10/24 15:45	01/13/24 14:13	1
1,4-Difluorobenzene (Surr)	118		70 - 130	01/10/24 15:45	01/13/24 14:13	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-38 (2.0')

Lab Sample ID: 880-37779-38

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/13/24 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	105		49.7		mg/Kg			01/11/24 19:29	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	<49.7	U	49.7		mg/Kg		01/10/24 16:52	01/11/24 19:29	1
Diesel Range Organics (Over C10-C28)	105		49.7		mg/Kg		01/10/24 16:52	01/11/24 19:29	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/10/24 16:52	01/11/24 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				01/10/24 16:52	01/11/24 19:29	1
o-Terphenyl	96		70 - 130				01/10/24 16:52	01/11/24 19:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.6		4.99		mg/Kg			01/11/24 21:12	1

Client Sample ID: CS-39 (2.0')

Lab Sample ID: 880-37779-39

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 14:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 14:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 14:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 14:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 14:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				01/10/24 15:45	01/13/24 14:40	1
1,4-Difluorobenzene (Surr)	155	S1+	70 - 130				01/10/24 15:45	01/13/24 14:40	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			01/13/24 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	321		50.0		mg/Kg			01/11/24 19:51	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		01/10/24 16:52	01/11/24 19:51	1
Diesel Range Organics (Over C10-C28)	321		50.0		mg/Kg		01/10/24 16:52	01/11/24 19:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-39 (2.0')

Lab Sample ID: 880-37779-39

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/24 16:52	01/11/24 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				01/10/24 16:52	01/11/24 19:51	1
o-Terphenyl	108		70 - 130				01/10/24 16:52	01/11/24 19:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.2		5.04		mg/Kg			01/11/24 21:17	1

Client Sample ID: CS-40 (2.0')

Lab Sample ID: 880-37779-40

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:45	01/13/24 15:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 15:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 15:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 15:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:45	01/13/24 15:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:45	01/13/24 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				01/10/24 15:45	01/13/24 15:06	1
1,4-Difluorobenzene (Surr)	128		70 - 130				01/10/24 15:45	01/13/24 15:06	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			01/13/24 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	172		49.7		mg/Kg			01/11/24 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/10/24 16:52	01/11/24 20:13	1
Diesel Range Organics (Over C10-C28)	172		49.7		mg/Kg		01/10/24 16:52	01/11/24 20:13	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/10/24 16:52	01/11/24 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				01/10/24 16:52	01/11/24 20:13	1
o-Terphenyl	100		70 - 130				01/10/24 16:52	01/11/24 20:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.9		4.97		mg/Kg			01/11/24 21:22	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-41 (2.0')

Lab Sample ID: 880-37779-41

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		01/10/24 15:47	01/13/24 19:35	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		01/10/24 15:47	01/13/24 19:35	1
Ethylbenzene	<0.00199	U F2 F1	0.00199		mg/Kg		01/10/24 15:47	01/13/24 19:35	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398		mg/Kg		01/10/24 15:47	01/13/24 19:35	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		01/10/24 15:47	01/13/24 19:35	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		01/10/24 15:47	01/13/24 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/10/24 15:47	01/13/24 19:35	1
1,4-Difluorobenzene (Surr)	78		70 - 130	01/10/24 15:47	01/13/24 19:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/24 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.8		50.4		mg/Kg			01/11/24 10:45	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	<50.4	U F1	50.4		mg/Kg		01/10/24 17:02	01/11/24 10:45	1
Diesel Range Organics (Over C10-C28)	80.8	F1	50.4		mg/Kg		01/10/24 17:02	01/11/24 10:45	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 17:02	01/11/24 10:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	01/10/24 17:02	01/11/24 10:45	1
o-Terphenyl	77		70 - 130	01/10/24 17:02	01/11/24 10:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.1		4.98		mg/Kg			01/11/24 15:53	1

Client Sample ID: CS-42 (2.0')

Lab Sample ID: 880-37779-42

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/13/24 20:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/13/24 20:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/13/24 20:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:47	01/13/24 20:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/13/24 20:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:47	01/13/24 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/10/24 15:47	01/13/24 20:01	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	01/10/24 15:47	01/13/24 20:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-42 (2.0')

Lab Sample ID: 880-37779-42

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/13/24 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.3		49.8		mg/Kg			01/11/24 11:57	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		01/10/24 17:02	01/11/24 11:57	1
Diesel Range Organics (Over C10-C28)	91.3		49.8		mg/Kg		01/10/24 17:02	01/11/24 11:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/10/24 17:02	01/11/24 11:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/10/24 17:02	01/11/24 11:57	1
o-Terphenyl	74		70 - 130				01/10/24 17:02	01/11/24 11:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.4		5.00		mg/Kg			01/11/24 16:13	1

Client Sample ID: CS-43 (2.0')

Lab Sample ID: 880-37779-43

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/13/24 20:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:47	01/13/24 20:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:47	01/13/24 20:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:47	01/13/24 20:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:47	01/13/24 20:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:47	01/13/24 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				01/10/24 15:47	01/13/24 20:27	1
1,4-Difluorobenzene (Surr)	155	S1+	70 - 130				01/10/24 15:47	01/13/24 20:27	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			01/13/24 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.6		50.0		mg/Kg			01/11/24 12:19	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		01/10/24 17:02	01/11/24 12:19	1
Diesel Range Organics (Over C10-C28)	82.6		50.0		mg/Kg		01/10/24 17:02	01/11/24 12:19	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-43 (2.0')

Lab Sample ID: 880-37779-43

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/24 17:02	01/11/24 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				01/10/24 17:02	01/11/24 12:19	1
o-Terphenyl	89		70 - 130				01/10/24 17:02	01/11/24 12:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.1		4.95		mg/Kg			01/11/24 16:20	1

Client Sample ID: CS-44 (2.0')

Lab Sample ID: 880-37779-44

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/13/24 20:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 20:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 20:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/13/24 20:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 20:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/13/24 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				01/10/24 15:47	01/13/24 20:53	1
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130				01/10/24 15:47	01/13/24 20:53	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			01/13/24 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	95.9		50.2		mg/Kg			01/11/24 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/10/24 17:02	01/11/24 12:42	1
Diesel Range Organics (Over C10-C28)	95.9		50.2		mg/Kg		01/10/24 17:02	01/11/24 12:42	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/10/24 17:02	01/11/24 12:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/10/24 17:02	01/11/24 12:42	1
o-Terphenyl	74		70 - 130				01/10/24 17:02	01/11/24 12:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.2		4.99		mg/Kg			01/11/24 16:27	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-45 (2.0')

Lab Sample ID: 880-37779-45

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/13/24 21:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:47	01/13/24 21:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:47	01/13/24 21:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/10/24 15:47	01/13/24 21:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:47	01/13/24 21:19	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/10/24 15:47	01/13/24 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	01/10/24 15:47	01/13/24 21:19	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/10/24 15:47	01/13/24 21:19	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			01/13/24 21:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	92.9		50.1		mg/Kg			01/11/24 13:04	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	<50.1	U	50.1		mg/Kg		01/10/24 17:02	01/11/24 13:04	1
Diesel Range Organics (Over C10-C28)	92.9		50.1		mg/Kg		01/10/24 17:02	01/11/24 13:04	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/10/24 17:02	01/11/24 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	01/10/24 17:02	01/11/24 13:04	1
o-Terphenyl	80		70 - 130	01/10/24 17:02	01/11/24 13:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.2		5.04		mg/Kg			01/11/24 16:34	1

Client Sample ID: CS-46 (2.0')

Lab Sample ID: 880-37779-46

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/13/24 21:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 21:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 21:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/13/24 21:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 21:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/13/24 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	01/10/24 15:47	01/13/24 21:46	1
1,4-Difluorobenzene (Surr)	155	S1+	70 - 130	01/10/24 15:47	01/13/24 21:46	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-46 (2.0')

Lab Sample ID: 880-37779-46

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/13/24 21:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.3		50.4		mg/Kg			01/11/24 13:27	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		01/10/24 17:02	01/11/24 13:27	1
Diesel Range Organics (Over C10-C28)	76.3		50.4		mg/Kg		01/10/24 17:02	01/11/24 13:27	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 17:02	01/11/24 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/10/24 17:02	01/11/24 13:27	1
o-Terphenyl	75		70 - 130				01/10/24 17:02	01/11/24 13:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.97		mg/Kg			01/11/24 16:54	1

Client Sample ID: CS-47 (2.0')

Lab Sample ID: 880-37779-47

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/13/24 22:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/13/24 22:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/13/24 22:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:47	01/13/24 22:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/13/24 22:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:47	01/13/24 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				01/10/24 15:47	01/13/24 22:12	1
1,4-Difluorobenzene (Surr)	75		70 - 130				01/10/24 15:47	01/13/24 22:12	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			01/13/24 22:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.6		49.7		mg/Kg			01/11/24 13:49	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	<49.7	U	49.7		mg/Kg		01/10/24 17:02	01/11/24 13:49	1
Diesel Range Organics (Over C10-C28)	94.6		49.7		mg/Kg		01/10/24 17:02	01/11/24 13:49	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-47 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-47
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/10/24 17:02	01/11/24 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/10/24 17:02	01/11/24 13:49	1
o-Terphenyl	73		70 - 130				01/10/24 17:02	01/11/24 13:49	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.7		4.96		mg/Kg			01/11/24 17:01	1

Client Sample ID: CS-48 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-48
Matrix: Solid

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		01/10/24 15:47	01/13/24 22:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:47	01/13/24 22:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:47	01/13/24 22:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:47	01/13/24 22:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:47	01/13/24 22:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:47	01/13/24 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				01/10/24 15:47	01/13/24 22:38	1
1,4-Difluorobenzene (Surr)	155	S1+	70 - 130				01/10/24 15:47	01/13/24 22:38	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			01/13/24 22:38	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		49.9		mg/Kg			01/11/24 14:11	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		01/10/24 17:02	01/11/24 14:11	1
Diesel Range Organics (Over C10-C28)	101		49.9		mg/Kg		01/10/24 17:02	01/11/24 14:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/24 17:02	01/11/24 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/10/24 17:02	01/11/24 14:11	1
o-Terphenyl	75		70 - 130				01/10/24 17:02	01/11/24 14:11	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.9		4.97		mg/Kg			01/11/24 17:08	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-49 (2.0')

Lab Sample ID: 880-37779-49

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/13/24 23:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 23:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 23:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/13/24 23:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 23:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/13/24 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/10/24 15:47	01/13/24 23:04	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/10/24 15:47	01/13/24 23:04	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			01/13/24 23:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.9		50.0		mg/Kg			01/11/24 14:33	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		01/10/24 17:02	01/11/24 14:33	1
Diesel Range Organics (Over C10-C28)	68.9		50.0		mg/Kg		01/10/24 17:02	01/11/24 14:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/24 17:02	01/11/24 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	01/10/24 17:02	01/11/24 14:33	1
o-Terphenyl	81		70 - 130	01/10/24 17:02	01/11/24 14:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.9		5.05		mg/Kg			01/11/24 17:15	1

Client Sample ID: CS-50 (2.0')

Lab Sample ID: 880-37779-50

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/13/24 23:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 23:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 23:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/13/24 23:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/13/24 23:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/13/24 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	01/10/24 15:47	01/13/24 23:31	1
1,4-Difluorobenzene (Surr)	110		70 - 130	01/10/24 15:47	01/13/24 23:31	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-50 (2.0')

Lab Sample ID: 880-37779-50

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/13/24 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	134		50.3		mg/Kg			01/11/24 14:54	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	<50.3	U	50.3		mg/Kg		01/10/24 17:02	01/11/24 14:54	1
Diesel Range Organics (Over C10-C28)	134		50.3		mg/Kg		01/10/24 17:02	01/11/24 14:54	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/10/24 17:02	01/11/24 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				01/10/24 17:02	01/11/24 14:54	1
o-Terphenyl	83		70 - 130				01/10/24 17:02	01/11/24 14:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.02		mg/Kg			01/11/24 17:22	1

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-37779-51

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/14/24 01:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 01:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 01:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:47	01/14/24 01:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 01:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:47	01/14/24 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				01/10/24 15:47	01/14/24 01:17	1
1,4-Difluorobenzene (Surr)	119		70 - 130				01/10/24 15:47	01/14/24 01:17	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			01/14/24 01:17	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			01/11/24 15:38	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		01/10/24 17:02	01/11/24 15:38	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/10/24 17:02	01/11/24 15:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-37779-51

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/10/24 17:02	01/11/24 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				01/10/24 17:02	01/11/24 15:38	1
o-Terphenyl	80		70 - 130				01/10/24 17:02	01/11/24 15:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.3	F1	5.01		mg/Kg			01/11/24 17:29	1

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-37779-52

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/14/24 01:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:47	01/14/24 01:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:47	01/14/24 01:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:47	01/14/24 01:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:47	01/14/24 01:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:47	01/14/24 01:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				01/10/24 15:47	01/14/24 01:43	1
1,4-Difluorobenzene (Surr)	125		70 - 130				01/10/24 15:47	01/14/24 01:43	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			01/14/24 01:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/11/24 16:24	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		01/10/24 17:02	01/11/24 16:24	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/10/24 17:02	01/11/24 16:24	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 17:02	01/11/24 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				01/10/24 17:02	01/11/24 16:24	1
o-Terphenyl	80		70 - 130				01/10/24 17:02	01/11/24 16:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.99		mg/Kg			01/11/24 17:49	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-37779-53

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/14/24 02:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 02:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 02:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/14/24 02:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 02:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/14/24 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/10/24 15:47	01/14/24 02:10	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	01/10/24 15:47	01/14/24 02:10	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			01/14/24 02:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/11/24 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/10/24 17:02	01/11/24 16:46	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/10/24 17:02	01/11/24 16:46	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/10/24 17:02	01/11/24 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	01/10/24 17:02	01/11/24 16:46	1
o-Terphenyl	78		70 - 130	01/10/24 17:02	01/11/24 16:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.7		4.97		mg/Kg			01/11/24 17:56	1

Client Sample ID: SW-4 (0.5')

Lab Sample ID: 880-37779-54

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/14/24 02:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 02:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 02:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/14/24 02:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 02:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/14/24 02:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	01/10/24 15:47	01/14/24 02:36	1
1,4-Difluorobenzene (Surr)	123		70 - 130	01/10/24 15:47	01/14/24 02:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-4 (0.5')

Lab Sample ID: 880-37779-54

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/14/24 02:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/11/24 17:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/24 17:02	01/11/24 17:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/24 17:02	01/11/24 17:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/24 17:02	01/11/24 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				01/10/24 17:02	01/11/24 17:08	1
o-Terphenyl	79		70 - 130				01/10/24 17:02	01/11/24 17:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.8		4.95		mg/Kg			01/11/24 18:16	1

Client Sample ID: SW-5 (2.0')

Lab Sample ID: 880-37779-55

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/14/24 03:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 03:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 03:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:47	01/14/24 03:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 03:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:47	01/14/24 03:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				01/10/24 15:47	01/14/24 03:02	1
1,4-Difluorobenzene (Surr)	125		70 - 130				01/10/24 15:47	01/14/24 03:02	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			01/14/24 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/11/24 17:30	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		01/10/24 17:02	01/11/24 17:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/24 17:02	01/11/24 17:30	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-5 (2.0')

Lab Sample ID: 880-37779-55

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/24 17:02	01/11/24 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				01/10/24 17:02	01/11/24 17:30	1
o-Terphenyl	86		70 - 130				01/10/24 17:02	01/11/24 17:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.6		4.97		mg/Kg			01/11/24 18:23	1

Client Sample ID: SW-6 (2.0')

Lab Sample ID: 880-37779-56

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/14/24 03:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 03:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 03:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/10/24 15:47	01/14/24 03:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 03:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/10/24 15:47	01/14/24 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				01/10/24 15:47	01/14/24 03:28	1
1,4-Difluorobenzene (Surr)	100		70 - 130				01/10/24 15:47	01/14/24 03:28	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			01/14/24 03:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/11/24 17:52	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		01/10/24 17:02	01/11/24 17:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/10/24 17:02	01/11/24 17:52	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/10/24 17:02	01/11/24 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/10/24 17:02	01/11/24 17:52	1
o-Terphenyl	76		70 - 130				01/10/24 17:02	01/11/24 17:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.0		5.00		mg/Kg			01/11/24 18:30	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-7 (2.0')

Lab Sample ID: 880-37779-57

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/14/24 03:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 03:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 03:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/14/24 03:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 03:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/14/24 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/10/24 15:47	01/14/24 03:54	1
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130	01/10/24 15:47	01/14/24 03:54	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			01/14/24 03:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/11/24 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	<50.3	U	50.3		mg/Kg		01/10/24 17:02	01/11/24 18:14	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/10/24 17:02	01/11/24 18:14	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/10/24 17:02	01/11/24 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	01/10/24 17:02	01/11/24 18:14	1
o-Terphenyl	84		70 - 130	01/10/24 17:02	01/11/24 18:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.9		5.00		mg/Kg			01/11/24 18:37	1

Client Sample ID: SW-8 (2.0')

Lab Sample ID: 880-37779-58

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/14/24 04:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 04:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 04:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/14/24 04:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 04:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/14/24 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	01/10/24 15:47	01/14/24 04:21	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/10/24 15:47	01/14/24 04:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-8 (2.0')

Lab Sample ID: 880-37779-58

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/14/24 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	<50.1	U	50.1		mg/Kg			01/11/24 18:36	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		01/10/24 17:02	01/11/24 18:36	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/10/24 17:02	01/11/24 18:36	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/10/24 17:02	01/11/24 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/10/24 17:02	01/11/24 18:36	1
o-Terphenyl	78		70 - 130				01/10/24 17:02	01/11/24 18:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.1	F1	4.98		mg/Kg			01/11/24 22:03	1

Client Sample ID: SW-9 (2.0')

Lab Sample ID: 880-37779-59

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/14/24 04:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 04:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 04:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/14/24 04:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:47	01/14/24 04:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:47	01/14/24 04:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				01/10/24 15:47	01/14/24 04:47	1
1,4-Difluorobenzene (Surr)	129		70 - 130				01/10/24 15:47	01/14/24 04:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/14/24 04:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/11/24 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/10/24 17:02	01/11/24 18:58	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/10/24 17:02	01/11/24 18:58	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-9 (2.0')

Lab Sample ID: 880-37779-59

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/10/24 17:02	01/11/24 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/10/24 17:02	01/11/24 18:58	1
o-Terphenyl	76		70 - 130				01/10/24 17:02	01/11/24 18:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.3		5.04		mg/Kg			01/11/24 22:19	1

Client Sample ID: SW-10 (2.0')

Lab Sample ID: 880-37779-60

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:47	01/14/24 05:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 05:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 05:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:47	01/14/24 05:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/14/24 05:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:47	01/14/24 05:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				01/10/24 15:47	01/14/24 05:14	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130				01/10/24 15:47	01/14/24 05:14	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			01/14/24 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/11/24 19:21	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	<50.5	U	50.5		mg/Kg		01/10/24 17:02	01/11/24 19:21	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/10/24 17:02	01/11/24 19:21	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/10/24 17:02	01/11/24 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/10/24 17:02	01/11/24 19:21	1
o-Terphenyl	74		70 - 130				01/10/24 17:02	01/11/24 19:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.0		4.97		mg/Kg			01/11/24 22:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-11 (2.0')

Lab Sample ID: 880-37779-61

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:49	01/11/24 12:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:49	01/11/24 12:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:49	01/11/24 12:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:49	01/11/24 12:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:49	01/11/24 12:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:49	01/11/24 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	01/10/24 15:49	01/11/24 12:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/10/24 15:49	01/11/24 12:51	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			01/11/24 12:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.1		49.9		mg/Kg			01/12/24 20:24	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 *1	49.9		mg/Kg		01/12/24 09:08	01/12/24 20:24	1
Diesel Range Organics (Over C10-C28)	64.1	F1	49.9		mg/Kg		01/12/24 09:08	01/12/24 20:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/12/24 09:08	01/12/24 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130	01/12/24 09:08	01/12/24 20:24	1
o-Terphenyl	158	S1+	70 - 130	01/12/24 09:08	01/12/24 20:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.2	F1	4.98		mg/Kg			01/12/24 10:28	1

Client Sample ID: SW-12 (2.0')

Lab Sample ID: 880-37779-62

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:49	01/11/24 13:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:49	01/11/24 13:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:49	01/11/24 13:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/24 15:49	01/11/24 13:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:49	01/11/24 13:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 15:49	01/11/24 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	01/10/24 15:49	01/11/24 13:12	1
1,4-Difluorobenzene (Surr)	114		70 - 130	01/10/24 15:49	01/11/24 13:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-12 (2.0')

Lab Sample ID: 880-37779-62

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/11/24 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/12/24 21:27	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	<50.5	U *1	50.5		mg/Kg		01/12/24 09:08	01/12/24 21:27	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/12/24 09:08	01/12/24 21:27	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/12/24 09:08	01/12/24 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	173	S1+	70 - 130				01/12/24 09:08	01/12/24 21:27	1
o-Terphenyl	154	S1+	70 - 130				01/12/24 09:08	01/12/24 21:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.24		5.00		mg/Kg			01/12/24 10:43	1

Client Sample ID: SW-13 (2.0')

Lab Sample ID: 880-37779-63

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:49	01/11/24 13:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:49	01/11/24 13:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:49	01/11/24 13:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:49	01/11/24 13:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:49	01/11/24 13:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:49	01/11/24 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/10/24 15:49	01/11/24 13:32	1
1,4-Difluorobenzene (Surr)	113		70 - 130				01/10/24 15:49	01/11/24 13:32	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			01/11/24 13:32	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			01/12/24 21:48	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 *1	49.7		mg/Kg		01/12/24 09:08	01/12/24 21:48	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/12/24 09:08	01/12/24 21:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-13 (2.0')

Lab Sample ID: 880-37779-63

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/12/24 09:08	01/12/24 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				01/12/24 09:08	01/12/24 21:48	1
o-Terphenyl	130		70 - 130				01/12/24 09:08	01/12/24 21:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.83		4.95		mg/Kg			01/12/24 10:48	1

Client Sample ID: SW-14 (2.0')

Lab Sample ID: 880-37779-64

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:49	01/11/24 13:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:49	01/11/24 13:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:49	01/11/24 13:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/24 15:49	01/11/24 13:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/24 15:49	01/11/24 13:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/24 15:49	01/11/24 13:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				01/10/24 15:49	01/11/24 13:53	1
1,4-Difluorobenzene (Surr)	114		70 - 130				01/10/24 15:49	01/11/24 13:53	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			01/11/24 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.1		49.9		mg/Kg			01/12/24 22:09	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 *1	49.9		mg/Kg		01/12/24 09:08	01/12/24 22:09	1
Diesel Range Organics (Over C10-C28)	76.1		49.9		mg/Kg		01/12/24 09:08	01/12/24 22:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/12/24 09:08	01/12/24 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				01/12/24 09:08	01/12/24 22:09	1
o-Terphenyl	136	S1+	70 - 130				01/12/24 09:08	01/12/24 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.3		4.99		mg/Kg			01/11/24 22:29	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-15 (2.0')

Lab Sample ID: 880-37779-65

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:49	01/11/24 14:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:49	01/11/24 14:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:49	01/11/24 14:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/24 15:49	01/11/24 14:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 15:49	01/11/24 14:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 15:49	01/11/24 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/10/24 15:49	01/11/24 14:13	1
1,4-Difluorobenzene (Surr)	111		70 - 130	01/10/24 15:49	01/11/24 14:13	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			01/11/24 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/11/24 04:21	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	<50.2	U	50.2		mg/Kg		01/10/24 15:47	01/11/24 04:21	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/10/24 15:47	01/11/24 04:21	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/10/24 15:47	01/11/24 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	01/10/24 15:47	01/11/24 04:21	1
o-Terphenyl	108		70 - 130	01/10/24 15:47	01/11/24 04:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			01/11/24 22:34	1

Client Sample ID: SW-16 (2.0')

Lab Sample ID: 880-37779-66

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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		01/10/24 15:49	01/11/24 14:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:49	01/11/24 14:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:49	01/11/24 14:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/10/24 15:49	01/11/24 14:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/10/24 15:49	01/11/24 14:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/10/24 15:49	01/11/24 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/10/24 15:49	01/11/24 14:34	1
1,4-Difluorobenzene (Surr)	110		70 - 130	01/10/24 15:49	01/11/24 14:34	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-16 (2.0')

Lab Sample ID: 880-37779-66

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			01/11/24 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/11/24 04:42	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		01/10/24 15:47	01/11/24 04:42	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/10/24 15:47	01/11/24 04:42	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/10/24 15:47	01/11/24 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	01/10/24 15:47	01/11/24 04:42	1
o-Terphenyl	103		70 - 130	01/10/24 15:47	01/11/24 04:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.44		4.97		mg/Kg			01/11/24 22:49	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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)
880-37779-1	CS-1 (1.5')	99	77
880-37779-1 MS	CS-1 (1.5')	91	127
880-37779-1 MSD	CS-1 (1.5')	75	76
880-37779-2	CS-2 (1.5')	100	126
880-37779-3	CS-3 (1.5')	108	117
880-37779-4	CS-4 (1.5')	116	128
880-37779-5	CS-5 (1.5')	116	99
880-37779-6	CS-6 (1.5')	112	125
880-37779-7	CS-7 (1.5')	125	105
880-37779-8	CS-8 (1.5')	106	136 S1+
880-37779-9	CS-9 (1.5')	110	125
880-37779-10	CS-10 (1.5')	88	127
880-37779-11	CS-11 (1.5')	108	112
880-37779-12	CS-12 (1.5')	105	127
880-37779-13	CS-13 (2.0')	94	126
880-37779-14	CS-14 (2.0')	71	81
880-37779-15	CS-15 (2.0')	116	138 S1+
880-37779-16	CS-16 (2.0')	114	154 S1+
880-37779-17	CS-17 (2.0')	121	161 S1+
880-37779-18	CS-18 (2.0')	117	162 S1+
880-37779-19	CS-19 (2.0')	107	133 S1+
880-37779-20	CS-20 (2.0')	109	111
880-37779-21	CS-21 (2.0')	81	75
880-37779-21 MS	CS-21 (2.0')	98	123
880-37779-21 MSD	CS-21 (2.0')	113	166 S1+
880-37779-22	CS-22 (2.0')	100	128
880-37779-23	CS-23 (2.0')	105	135 S1+
880-37779-24	CS-24 (2.0')	104	123
880-37779-25	CS-25 (2.0')	117	139 S1+
880-37779-26	CS-26 (2.0')	107	138 S1+
880-37779-27	CS-27 (2.0')	118	136 S1+
880-37779-28	CS-28 (2.0')	113	109
880-37779-29	CS-29 (2.0')	118	112
880-37779-30	CS-30 (2.0')	103	123
880-37779-31	CS-31 (2.0')	100	126
880-37779-32	CS-32 (2.0')	149 S1+	116
880-37779-33	CS-33 (2.0')	101	102
880-37779-34	CS-34 (2.0')	102	113
880-37779-35	CS-35 (2.0')	114	88
880-37779-36	CS-36 (2.0')	112	139 S1+
880-37779-37	CS-37 (2.0')	119	108
880-37779-38	CS-38 (2.0')	108	118
880-37779-39	CS-39 (2.0')	118	155 S1+
880-37779-40	CS-40 (2.0')	93	128
880-37779-41	CS-41 (2.0')	122	78
880-37779-41 MS	CS-41 (2.0')	101	114
880-37779-41 MSD	CS-41 (2.0')	119	117
880-37779-42	CS-42 (2.0')	121	134 S1+
880-37779-43	CS-43 (2.0')	115	155 S1+

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-37779-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

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)
880-37779-44	CS-44 (2.0')	121	136 S1+
880-37779-45	CS-45 (2.0')	149 S1+	103
880-37779-46	CS-46 (2.0')	117	155 S1+
880-37779-47	CS-47 (2.0')	138 S1+	75
880-37779-48	CS-48 (2.0')	132 S1+	155 S1+
880-37779-49	CS-49 (2.0')	96	102
880-37779-50	CS-50 (2.0')	107	110
880-37779-51	SW-1 (1.5')	96	119
880-37779-52	SW-2 (1.5')	133 S1+	125
880-37779-53	SW-3 (1.5')	115	134 S1+
880-37779-54	SW-4 (0.5')	116	123
880-37779-55	SW-5 (2.0')	139 S1+	125
880-37779-56	SW-6 (2.0')	96	100
880-37779-57	SW-7 (2.0')	115	135 S1+
880-37779-58	SW-8 (2.0')	128	104
880-37779-59	SW-9 (2.0')	128	129
880-37779-60	SW-10 (2.0')	105	133 S1+
880-37779-61	SW-11 (2.0')	86	98
880-37779-61 MS	SW-11 (2.0')	107	109
880-37779-61 MSD	SW-11 (2.0')	108	103
880-37779-62	SW-12 (2.0')	106	114
880-37779-63	SW-13 (2.0')	108	113
880-37779-64	SW-14 (2.0')	103	114
880-37779-65	SW-15 (2.0')	101	111
880-37779-66	SW-16 (2.0')	108	110
LCS 880-70589/1-A	Lab Control Sample	118	125
LCS 880-70591/1-A	Lab Control Sample	134 S1+	131 S1+
LCS 880-70594/1-A	Lab Control Sample	110	134 S1+
LCS 880-70596/1-A	Lab Control Sample	107	116
LCSD 880-70589/2-A	Lab Control Sample Dup	117	134 S1+
LCSD 880-70591/2-A	Lab Control Sample Dup	117	123
LCSD 880-70594/2-A	Lab Control Sample Dup	122	109
LCSD 880-70596/2-A	Lab Control Sample Dup	104	114
MB 880-70589/5-A	Method Blank	58 S1-	116
MB 880-70591/5-A	Method Blank	59 S1-	122
MB 880-70594/5-A	Method Blank	72	122
MB 880-70596/5-A	Method Blank	124	129
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-37681-A-1-F MS	Matrix Spike	104	103
880-37681-A-1-G MSD	Matrix Spike Duplicate	102	101
880-37779-1	CS-1 (1.5')	150 S1+	129

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-37779-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

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)
880-37779-1 MS	CS-1 (1.5')	151 S1+	119
880-37779-1 MSD	CS-1 (1.5')	126	98
880-37779-2	CS-2 (1.5')	154 S1+	132 S1+
880-37779-3	CS-3 (1.5')	155 S1+	135 S1+
880-37779-4	CS-4 (1.5')	115	103
880-37779-5	CS-5 (1.5')	142 S1+	124
880-37779-6	CS-6 (1.5')	116	101
880-37779-7	CS-7 (1.5')	149 S1+	125
880-37779-8	CS-8 (1.5')	120	105
880-37779-9	CS-9 (1.5')	128	113
880-37779-10	CS-10 (1.5')	133 S1+	114
880-37779-11	CS-11 (1.5')	143 S1+	125
880-37779-12	CS-12 (1.5')	148 S1+	127
880-37779-13	CS-13 (2.0')	132 S1+	117
880-37779-14	CS-14 (2.0')	151 S1+	132 S1+
880-37779-15	CS-15 (2.0')	113	103
880-37779-16	CS-16 (2.0')	152 S1+	137 S1+
880-37779-17	CS-17 (2.0')	153 S1+	135 S1+
880-37779-18	CS-18 (2.0')	147 S1+	135 S1+
880-37779-19	CS-19 (2.0')	142 S1+	124
880-37779-20	CS-20 (2.0')	133 S1+	120
880-37779-21	CS-21 (2.0')	98	102
880-37779-21 MS	CS-21 (2.0')	94	88
880-37779-21 MSD	CS-21 (2.0')	93	86
880-37779-22	CS-22 (2.0')	99	105
880-37779-23	CS-23 (2.0')	97	100
880-37779-24	CS-24 (2.0')	100	104
880-37779-25	CS-25 (2.0')	97	101
880-37779-26	CS-26 (2.0')	94	99
880-37779-27	CS-27 (2.0')	103	107
880-37779-28	CS-28 (2.0')	95	101
880-37779-29	CS-29 (2.0')	115	120
880-37779-30	CS-30 (2.0')	100	105
880-37779-31	CS-31 (2.0')	111	119
880-37779-32	CS-32 (2.0')	95	100
880-37779-33	CS-33 (2.0')	101	106
880-37779-34	CS-34 (2.0')	96	101
880-37779-35	CS-35 (2.0')	105	112
880-37779-36	CS-36 (2.0')	93	99
880-37779-37	CS-37 (2.0')	96	101
880-37779-38	CS-38 (2.0')	90	96
880-37779-39	CS-39 (2.0')	101	108
880-37779-40	CS-40 (2.0')	93	100
880-37779-41	CS-41 (2.0')	77	77
880-37779-41 MS	CS-41 (2.0')	77	70
880-37779-41 MSD	CS-41 (2.0')	76	69 S1-
880-37779-42	CS-42 (2.0')	75	74
880-37779-43	CS-43 (2.0')	87	89
880-37779-44	CS-44 (2.0')	76	74
880-37779-45	CS-45 (2.0')	80	80

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-37779-1

Project/Site: Raptor West 3 State #2H

SDG: Lea County, New Mexico

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)
880-37779-46	CS-46 (2.0')	76	75
880-37779-47	CS-47 (2.0')	73	73
880-37779-48	CS-48 (2.0')	74	75
880-37779-49	CS-49 (2.0')	81	81
880-37779-50	CS-50 (2.0')	84	83
880-37779-51	SW-1 (1.5')	80	80
880-37779-52	SW-2 (1.5')	80	80
880-37779-53	SW-3 (1.5')	77	78
880-37779-54	SW-4 (0.5')	77	79
880-37779-55	SW-5 (2.0')	83	86
880-37779-56	SW-6 (2.0')	75	76
880-37779-57	SW-7 (2.0')	83	84
880-37779-58	SW-8 (2.0')	76	78
880-37779-59	SW-9 (2.0')	74	76
880-37779-60	SW-10 (2.0')	72	74
880-37779-61	SW-11 (2.0')	166 S1+	158 S1+
880-37779-61 MS	SW-11 (2.0')	137 S1+	113
880-37779-61 MSD	SW-11 (2.0')	150 S1+	126
880-37779-62	SW-12 (2.0')	173 S1+	154 S1+
880-37779-63	SW-13 (2.0')	139 S1+	130
880-37779-64	SW-14 (2.0')	147 S1+	136 S1+
880-37779-65	SW-15 (2.0')	100	108
880-37779-66	SW-16 (2.0')	96	103
LCS 880-70593/2-A	Lab Control Sample	114	137 S1+
LCS 880-70610/2-A	Lab Control Sample	93	93
LCS 880-70611/2-A	Lab Control Sample	124	137 S1+
LCS 880-70613/2-A	Lab Control Sample	104	111
LCS 880-70723/2-A	Lab Control Sample	81	83
LCSD 880-70593/3-A	Lab Control Sample Dup	93	110
LCSD 880-70610/3-A	Lab Control Sample Dup	87	96
LCSD 880-70611/3-A	Lab Control Sample Dup	100	111
LCSD 880-70613/3-A	Lab Control Sample Dup	90	99
LCSD 880-70723/3-A	Lab Control Sample Dup	94	109
MB 880-70593/1-A	Method Blank	124	145 S1+
MB 880-70610/1-A	Method Blank	177 S1+	181 S1+
MB 880-70611/1-A	Method Blank	138 S1+	157 S1+
MB 880-70613/1-A - RA2	Method Blank	104	109
MB 880-70723/1-A	Method Blank	188 S1+	194 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70589/5-A
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70589

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 15:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 15:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 15:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/24 15:43	01/12/24 15:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:43	01/12/24 15:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/24 15:43	01/12/24 15:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130	01/10/24 15:43	01/12/24 15:27	1
1,4-Difluorobenzene (Surr)	116		70 - 130	01/10/24 15:43	01/12/24 15:27	1

Lab Sample ID: LCS 880-70589/1-A
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1110		mg/Kg		111	70 - 130
Toluene	0.100	0.09413		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.1045		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2207		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1067		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	125		70 - 130

Lab Sample ID: LCSD 880-70589/2-A
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70589

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	6	35
Toluene	0.100	0.1097		mg/Kg		110	70 - 130	15	35
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2480		mg/Kg		124	70 - 130	12	35
o-Xylene	0.100	0.1175		mg/Kg		118	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130

Lab Sample ID: 880-37779-1 MS
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: CS-1 (1.5')
Prep Type: Total/NA
Prep Batch: 70589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F2 F1	0.0996	0.08620		mg/Kg		87	70 - 130
Toluene	<0.00200	U F2 F1	0.0996	0.08583		mg/Kg		86	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-37779-1 MS

Matrix: Solid

Analysis Batch: 70755

Client Sample ID: CS-1 (1.5')

Prep Type: Total/NA

Prep Batch: 70589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.08159		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.199	0.2000		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U F2 F1	0.0996	0.09593		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	127		70 - 130

Lab Sample ID: 880-37779-1 MSD

Matrix: Solid

Analysis Batch: 70755

Client Sample ID: CS-1 (1.5')

Prep Type: Total/NA

Prep Batch: 70589

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0990	0.009722	F2 F1	mg/Kg		10	70 - 130	159	35
Toluene	<0.00200	U F2 F1	0.0990	0.003132	F2 F1	mg/Kg		3	70 - 130	186	35
Ethylbenzene	<0.00200	U F2 F1	0.0990	0.003274	F2 F1	mg/Kg		3	70 - 130	185	35
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.198	0.06490	F2 F1	mg/Kg		33	70 - 130	102	35
o-Xylene	<0.00200	U F2 F1	0.0990	<0.00198	U F2 F1	mg/Kg		0.5	70 - 130	198	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	75		70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: MB 880-70591/5-A

Matrix: Solid

Analysis Batch: 70755

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 04:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 04:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 04:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/24 15:45	01/13/24 04:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:45	01/13/24 04:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/24 15:45	01/13/24 04:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130	01/10/24 15:45	01/13/24 04:57	1
1,4-Difluorobenzene (Surr)	122		70 - 130	01/10/24 15:45	01/13/24 04:57	1

Lab Sample ID: LCS 880-70591/1-A

Matrix: Solid

Analysis Batch: 70755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.09258		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1016		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2360		mg/Kg		118	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-70591/1-A

Matrix: Solid

Analysis Batch: 70755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130

Lab Sample ID: LCSD 880-70591/2-A

Matrix: Solid

Analysis Batch: 70755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70591

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08976		mg/Kg		90	70 - 130	16	35
Toluene	0.100	0.07353		mg/Kg		74	70 - 130	23	35
Ethylbenzene	0.100	0.08223		mg/Kg		82	70 - 130	21	35
m-Xylene & p-Xylene	0.200	0.1881		mg/Kg		94	70 - 130	23	35
o-Xylene	0.100	0.09157		mg/Kg		92	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 880-37779-21 MS

Matrix: Solid

Analysis Batch: 70755

Client Sample ID: CS-21 (2.0')

Prep Type: Total/NA

Prep Batch: 70591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00310	F1	0.0996	0.05569	F1	mg/Kg		53	70 - 130
Toluene	<0.00199	U F1	0.0996	0.05546	F1	mg/Kg		56	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.05621	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1280	F1	mg/Kg		64	70 - 130
o-Xylene	0.00238	F2 F1	0.0996	0.06004	F1	mg/Kg		58	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 880-37779-21 MSD

Matrix: Solid

Analysis Batch: 70755

Client Sample ID: CS-21 (2.0')

Prep Type: Total/NA

Prep Batch: 70591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.00310	F1	0.0990	0.06958	F1	mg/Kg		67	70 - 130	22	35
Toluene	<0.00199	U F1	0.0990	0.06654	F1	mg/Kg		67	70 - 130	18	35
Ethylbenzene	<0.00199	U F1	0.0990	0.05906	F1	mg/Kg		60	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1502		mg/Kg		76	70 - 130	16	35
o-Xylene	0.00238	F2 F1	0.0990	0.006765	F2 F1	mg/Kg		4	70 - 130	159	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-37779-21 MSD
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: CS-21 (2.0')
Prep Type: Total/NA
Prep Batch: 70591

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	166	S1+	70 - 130

Lab Sample ID: MB 880-70594/5-A
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70594

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/13/24 19:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/13/24 19:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/13/24 19:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/24 15:47	01/13/24 19:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:47	01/13/24 19:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/24 15:47	01/13/24 19:08	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130				01/10/24 15:47	01/13/24 19:08	1
1,4-Difluorobenzene (Surr)	122		70 - 130				01/10/24 15:47	01/13/24 19:08	1

Lab Sample ID: LCS 880-70594/1-A
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70594

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Benzene	0.101	0.1005		mg/Kg		100		70 - 130	
Toluene	0.101	0.08274		mg/Kg		82		70 - 130	
Ethylbenzene	0.101	0.09324		mg/Kg		93		70 - 130	
m-Xylene & p-Xylene	0.201	0.2045		mg/Kg		102		70 - 130	
o-Xylene	0.101	0.1042		mg/Kg		104		70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130

Lab Sample ID: LCSD 880-70594/2-A
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70594

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Benzene	0.101	0.09164		mg/Kg		91		70 - 130	9	35
Toluene	0.101	0.09061		mg/Kg		90		70 - 130	9	35
Ethylbenzene	0.101	0.09155		mg/Kg		91		70 - 130	2	35
m-Xylene & p-Xylene	0.201	0.2031		mg/Kg		101		70 - 130	1	35
o-Xylene	0.101	0.09833		mg/Kg		98		70 - 130	6	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-70594/2-A
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70594

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

Lab Sample ID: 880-37779-41 MS
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: CS-41 (2.0')
Prep Type: Total/NA
Prep Batch: 70594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F2 F1	0.100	0.03734	F1	mg/Kg		37	70 - 130
Toluene	<0.00199	U F2 F1	0.100	0.03225	F1	mg/Kg		31	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.100	0.01872	F1	mg/Kg		19	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.04074	F1	mg/Kg		20	70 - 130
o-Xylene	<0.00199	U F2 F1	0.100	0.03764	F1	mg/Kg		38	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-37779-41 MSD
Matrix: Solid
Analysis Batch: 70755

Client Sample ID: CS-41 (2.0')
Prep Type: Total/NA
Prep Batch: 70594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0995	0.06367	F2 F1	mg/Kg		64	70 - 130	52	35
Toluene	<0.00199	U F2 F1	0.0995	0.05654	F2 F1	mg/Kg		56	70 - 130	55	35
Ethylbenzene	<0.00199	U F2 F1	0.0995	0.03204	F2 F1	mg/Kg		32	70 - 130	52	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.09450	F2 F1	mg/Kg		48	70 - 130	79	35
o-Xylene	<0.00199	U F2 F1	0.0995	0.05605	F2 F1	mg/Kg		56	70 - 130	39	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: MB 880-70596/5-A
Matrix: Solid
Analysis Batch: 70627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:49	01/11/24 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:49	01/11/24 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:49	01/11/24 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/24 15:49	01/11/24 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 15:49	01/11/24 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/24 15:49	01/11/24 11:50	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	124		70 - 130	01/10/24 15:49	01/11/24 11:50	1			
1,4-Difluorobenzene (Surr)	129		70 - 130	01/10/24 15:49	01/11/24 11:50	1			

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-70596/1-A

Matrix: Solid

Analysis Batch: 70627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1144		mg/Kg		114	70 - 130
Toluene	0.100	0.09106		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09804		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2187		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1113		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: LCSD 880-70596/2-A

Matrix: Solid

Analysis Batch: 70627

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70596

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1118		mg/Kg		112	70 - 130	2	35
Toluene	0.100	0.09223		mg/Kg		92	70 - 130	1	35
Ethylbenzene	0.100	0.09407		mg/Kg		94	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2113		mg/Kg		106	70 - 130	3	35
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-37779-61 MS

Matrix: Solid

Analysis Batch: 70627

Client Sample ID: SW-11 (2.0')

Prep Type: Total/NA

Prep Batch: 70596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1195		mg/Kg		120	70 - 130
Toluene	<0.00199	U	0.0996	0.1008		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1020		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2290		mg/Kg		115	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1176		mg/Kg		118	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-37779-61 MSD

Matrix: Solid

Analysis Batch: 70627

Client Sample ID: SW-11 (2.0')

Prep Type: Total/NA

Prep Batch: 70596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1214		mg/Kg		123	70 - 130	2	35
Toluene	<0.00199	U	0.0990	0.1042		mg/Kg		105	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.0990	0.1096		mg/Kg		111	70 - 130	7	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-37779-61 MSD
Matrix: Solid
Analysis Batch: 70627

Client Sample ID: SW-11 (2.0')
Prep Type: Total/NA
Prep Batch: 70596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2534		mg/Kg		128	70 - 130	10	35
o-Xylene	<0.00199	U	0.0990	0.1263		mg/Kg		127	70 - 130	7	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	108		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								

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

Lab Sample ID: MB 880-70593/1-A
Matrix: Solid
Analysis Batch: 70523

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70593

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		01/10/24 15:47	01/10/24 19:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/24 15:47	01/10/24 19:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/24 15:47	01/10/24 19:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				01/10/24 15:47	01/10/24 19:46	1
o-Terphenyl	145	S1+	70 - 130				01/10/24 15:47	01/10/24 19:46	1

Lab Sample ID: LCS 880-70593/2-A
Matrix: Solid
Analysis Batch: 70523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	925.0		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	919.6		mg/Kg		92	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	137	S1+	70 - 130						

Lab Sample ID: LCSD 880-70593/3-A
Matrix: Solid
Analysis Batch: 70523

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70593

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	906.6		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	929.4		mg/Kg		93	70 - 130	1	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-70593/3-A
Matrix: Solid
Analysis Batch: 70523

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70593

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-37681-A-1-F MS
Matrix: Solid
Analysis Batch: 70523

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1255		mg/Kg		121	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	868.2		mg/Kg		83	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 880-37681-A-1-G MSD
Matrix: Solid
Analysis Batch: 70523

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1250		mg/Kg		121	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	854.4		mg/Kg		81	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: MB 880-70610/1-A
Matrix: Solid
Analysis Batch: 70617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70610

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		01/10/24 16:48	01/11/24 07:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/24 16:48	01/11/24 07:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/24 16:48	01/11/24 07:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	177	S1+	70 - 130				01/10/24 16:48	01/11/24 07:52	1
o-Terphenyl	181	S1+	70 - 130				01/10/24 16:48	01/11/24 07:52	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-70610/2-A

Matrix: Solid

Analysis Batch: 70617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70610

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	901.6		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	928.2		mg/Kg		93	70 - 130		
Surrogate	LCS	LCS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	93		70 - 130								
o-Terphenyl	93		70 - 130								

Lab Sample ID: LCSD 880-70610/3-A

Matrix: Solid

Analysis Batch: 70617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70610

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	923.2		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	860.3		mg/Kg		86	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	96		70 - 130								

Lab Sample ID: 880-37779-1 MS

Matrix: Solid

Analysis Batch: 70617

Client Sample ID: CS-1 (1.5')

Prep Type: Total/NA

Prep Batch: 70610

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1010	1265		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1010	1488	F1	mg/Kg		146	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	151	S1+	70 - 130								
o-Terphenyl	119		70 - 130								

Lab Sample ID: 880-37779-1 MSD

Matrix: Solid

Analysis Batch: 70617

Client Sample ID: CS-1 (1.5')

Prep Type: Total/NA

Prep Batch: 70610

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1010	1071		mg/Kg		104	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1010	1248		mg/Kg		122	70 - 130	18	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	126		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-37779-1 MSD
Matrix: Solid
Analysis Batch: 70617

Client Sample ID: CS-1 (1.5')
Prep Type: Total/NA
Prep Batch: 70610

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	98		70 - 130

Lab Sample ID: MB 880-70611/1-A
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70611

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/24 16:52	01/11/24 07:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/24 16:52	01/11/24 07:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/24 16:52	01/11/24 07:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				01/10/24 16:52	01/11/24 07:52	1
<i>o</i> -Terphenyl	157	S1+	70 - 130				01/10/24 16:52	01/11/24 07:52	1

Lab Sample ID: LCS 880-70611/2-A
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	846.0		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	949.7		mg/Kg		95	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	124		70 - 130				
<i>o</i> -Terphenyl	137	S1+	70 - 130				

Lab Sample ID: LCSD 880-70611/3-A
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70611

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	932.2		mg/Kg		93	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	945.6		mg/Kg		95	70 - 130	0	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
<i>o</i> -Terphenyl	111		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-37779-21 MS

Matrix: Solid

Analysis Batch: 70619

Client Sample ID: CS-21 (2.0')

Prep Type: Total/NA

Prep Batch: 70611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	939.5		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	794.0		mg/Kg		75	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	88		70 - 130						

Lab Sample ID: 880-37779-21 MSD

Matrix: Solid

Analysis Batch: 70619

Client Sample ID: CS-21 (2.0')

Prep Type: Total/NA

Prep Batch: 70611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	828.6		mg/Kg		78	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	785.0		mg/Kg		74	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	86		70 - 130								

Lab Sample ID: LCS 880-70613/2-A

Matrix: Solid

Analysis Batch: 70623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	906.0		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	977.1		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	104		70 - 130				
o-Terphenyl	111		70 - 130				

Lab Sample ID: LCSD 880-70613/3-A

Matrix: Solid

Analysis Batch: 70623

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70613

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	993.7		mg/Kg		99	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	919.5		mg/Kg		92	70 - 130	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	90		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-70613/3-A
Matrix: Solid
Analysis Batch: 70623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70613

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-37779-41 MS
Matrix: Solid
Analysis Batch: 70623

Client Sample ID: CS-41 (2.0')
Prep Type: Total/NA
Prep Batch: 70613

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.4	U F1	1010	674.2	F1	mg/Kg		65	70 - 130		
Diesel Range Organics (Over C10-C28)	80.8	F1	1010	665.2	F1	mg/Kg		58	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	77		70 - 130								
o-Terphenyl	70		70 - 130								

Lab Sample ID: 880-37779-41 MSD
Matrix: Solid
Analysis Batch: 70623

Client Sample ID: CS-41 (2.0')
Prep Type: Total/NA
Prep Batch: 70613

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<50.4	U F1	1010	668.6	F1	mg/Kg		64	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	80.8	F1	1010	671.7	F1	mg/Kg		58	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	76		70 - 130								
o-Terphenyl	69	S1-	70 - 130								

Lab Sample ID: MB 880-70723/1-A
Matrix: Solid
Analysis Batch: 70705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70723

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/12/24 09:08	01/12/24 19:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/12/24 09:08	01/12/24 19:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/12/24 09:08	01/12/24 19:21	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	188	S1+	70 - 130				01/12/24 09:08	01/12/24 19:21	1
o-Terphenyl	194	S1+	70 - 130				01/12/24 09:08	01/12/24 19:21	1

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-70723/2-A

Matrix: Solid

Analysis Batch: 70705

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	766.9		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	1000	886.7		mg/Kg		89	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	81		70 - 130				
o-Terphenyl	83		70 - 130				

Lab Sample ID: LCSD 880-70723/3-A

Matrix: Solid

Analysis Batch: 70705

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70723

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	996.2	*1	mg/Kg		100	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1000	967.6		mg/Kg		97	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: 880-37779-61 MS

Matrix: Solid

Analysis Batch: 70705

Client Sample ID: SW-11 (2.0')

Prep Type: Total/NA

Prep Batch: 70723

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 *1	1010	1258		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	64.1	F1	1010	1385	F1	mg/Kg		131	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	137	S1+	70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 880-37779-61 MSD

Matrix: Solid

Analysis Batch: 70705

Client Sample ID: SW-11 (2.0')

Prep Type: Total/NA

Prep Batch: 70723

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 *1	1010	1338		mg/Kg		128	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	64.1	F1	1010	1542	F1	mg/Kg		146	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	150	S1+	70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-37779-61 MSD
Matrix: Solid
Analysis Batch: 70705

Client Sample ID: SW-11 (2.0')
Prep Type: Total/NA
Prep Batch: 70723

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	126		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA2

Lab Sample ID: MB 880-70613/1-A
Matrix: Solid
Analysis Batch: 70623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA2	<50.0	U	50.0		mg/Kg		01/10/24 17:02	01/11/24 07:52	1
Diesel Range Organics (Over C10-C28) - RA2	<50.0	U	50.0		mg/Kg		01/10/24 17:02	01/11/24 07:52	1
Oil Range Organics (Over C28-C36) - RA2	<50.0	U	50.0		mg/Kg		01/10/24 17:02	01/11/24 07:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane - RA2	104		70 - 130				01/10/24 17:02	01/11/24 07:52	1
o-Terphenyl - RA2	109		70 - 130				01/10/24 17:02	01/11/24 07:52	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70592/1-A
Matrix: Solid
Analysis Batch: 70632

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/24 15:25	1

Lab Sample ID: LCS 880-70592/2-A
Matrix: Solid
Analysis Batch: 70632

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.3		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-70592/3-A
Matrix: Solid
Analysis Batch: 70632

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	247.0		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-37779-1 MS
Matrix: Solid
Analysis Batch: 70632

Client Sample ID: CS-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	33.8		249	278.9		mg/Kg		98	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-37779-1 MSD
Matrix: Solid
Analysis Batch: 70632

Client Sample ID: CS-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	33.8		249	278.6		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-37779-11 MS
Matrix: Solid
Analysis Batch: 70632

Client Sample ID: CS-11 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	34.2	F1	251	252.7	F1	mg/Kg		87	90 - 110		

Lab Sample ID: 880-37779-11 MSD
Matrix: Solid
Analysis Batch: 70632

Client Sample ID: CS-11 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	34.2	F1	251	256.3	F1	mg/Kg		89	90 - 110	1	20

Lab Sample ID: MB 880-70605/1-A
Matrix: Solid
Analysis Batch: 70633

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/24 18:48	1

Lab Sample ID: LCS 880-70605/2-A
Matrix: Solid
Analysis Batch: 70633

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	249.0		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-70605/3-A
Matrix: Solid
Analysis Batch: 70633

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	242.6		mg/Kg		97	90 - 110	3	20

Lab Sample ID: 880-37779-21 MS
Matrix: Solid
Analysis Batch: 70633

Client Sample ID: CS-21 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	46.2		249	296.1		mg/Kg		100	90 - 110		

Lab Sample ID: 880-37779-21 MSD
Matrix: Solid
Analysis Batch: 70633

Client Sample ID: CS-21 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	46.2		249	307.8		mg/Kg		105	90 - 110	4	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-37779-31 MS
Matrix: Solid
Analysis Batch: 70633

Client Sample ID: CS-31 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	55.8		251	289.0		mg/Kg		93	90 - 110

Lab Sample ID: 880-37779-31 MSD
Matrix: Solid
Analysis Batch: 70633

Client Sample ID: CS-31 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	55.8		251	289.3		mg/Kg		93	90 - 110	0	20

Lab Sample ID: MB 880-70608/1-A
Matrix: Solid
Analysis Batch: 70635

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/24 15:32	1

Lab Sample ID: LCS 880-70608/2-A
Matrix: Solid
Analysis Batch: 70635

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-70608/3-A
Matrix: Solid
Analysis Batch: 70635

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	247.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-37779-41 MS
Matrix: Solid
Analysis Batch: 70635

Client Sample ID: CS-41 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	83.1		249	306.7		mg/Kg		90	90 - 110

Lab Sample ID: 880-37779-41 MSD
Matrix: Solid
Analysis Batch: 70635

Client Sample ID: CS-41 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	83.1		249	306.2		mg/Kg		90	90 - 110	0	20

Lab Sample ID: 880-37779-51 MS
Matrix: Solid
Analysis Batch: 70635

Client Sample ID: SW-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	93.3	F1	251	316.9	F1	mg/Kg		89	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-37779-51 MSD
Matrix: Solid
Analysis Batch: 70635

Client Sample ID: SW-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	93.3	F1	251	316.5	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: MB 880-70612/1-A
Matrix: Solid
Analysis Batch: 70696

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/24 21:48	1

Lab Sample ID: LCS 880-70612/2-A
Matrix: Solid
Analysis Batch: 70696

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.4		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-70612/3-A
Matrix: Solid
Analysis Batch: 70696

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	248.8		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-37779-58 MS
Matrix: Solid
Analysis Batch: 70696

Client Sample ID: SW-8 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	89.1	F1	249	311.2	F1	mg/Kg		89	90 - 110

Lab Sample ID: 880-37779-58 MSD
Matrix: Solid
Analysis Batch: 70696

Client Sample ID: SW-8 (2.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	89.1	F1	249	312.6		mg/Kg		90	90 - 110	0	20

Lab Sample ID: MB 880-70713/1-A
Matrix: Solid
Analysis Batch: 70727

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/12/24 10:12	1

Lab Sample ID: LCS 880-70713/2-A
Matrix: Solid
Analysis Batch: 70727

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.0		mg/Kg		99	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-70713/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 70727											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	248.5		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-37779-61 MS				Client Sample ID: SW-11 (2.0')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 70727											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	79.2	F1	249	299.1	F1	mg/Kg		88	90 - 110		

Lab Sample ID: 880-37779-61 MSD				Client Sample ID: SW-11 (2.0')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 70727											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	79.2	F1	249	299.6	F1	mg/Kg		89	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 70589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-1	CS-1 (1.5')	Total/NA	Solid	5035	
880-37779-2	CS-2 (1.5')	Total/NA	Solid	5035	
880-37779-3	CS-3 (1.5')	Total/NA	Solid	5035	
880-37779-4	CS-4 (1.5')	Total/NA	Solid	5035	
880-37779-5	CS-5 (1.5')	Total/NA	Solid	5035	
880-37779-6	CS-6 (1.5')	Total/NA	Solid	5035	
880-37779-7	CS-7 (1.5')	Total/NA	Solid	5035	
880-37779-8	CS-8 (1.5')	Total/NA	Solid	5035	
880-37779-9	CS-9 (1.5')	Total/NA	Solid	5035	
880-37779-10	CS-10 (1.5')	Total/NA	Solid	5035	
880-37779-11	CS-11 (1.5')	Total/NA	Solid	5035	
880-37779-12	CS-12 (1.5')	Total/NA	Solid	5035	
880-37779-13	CS-13 (2.0')	Total/NA	Solid	5035	
880-37779-14	CS-14 (2.0')	Total/NA	Solid	5035	
880-37779-15	CS-15 (2.0')	Total/NA	Solid	5035	
880-37779-16	CS-16 (2.0')	Total/NA	Solid	5035	
880-37779-17	CS-17 (2.0')	Total/NA	Solid	5035	
880-37779-18	CS-18 (2.0')	Total/NA	Solid	5035	
880-37779-19	CS-19 (2.0')	Total/NA	Solid	5035	
880-37779-20	CS-20 (2.0')	Total/NA	Solid	5035	
MB 880-70589/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70589/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70589/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37779-1 MS	CS-1 (1.5')	Total/NA	Solid	5035	
880-37779-1 MSD	CS-1 (1.5')	Total/NA	Solid	5035	

Prep Batch: 70591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-21	CS-21 (2.0')	Total/NA	Solid	5035	
880-37779-22	CS-22 (2.0')	Total/NA	Solid	5035	
880-37779-23	CS-23 (2.0')	Total/NA	Solid	5035	
880-37779-24	CS-24 (2.0')	Total/NA	Solid	5035	
880-37779-25	CS-25 (2.0')	Total/NA	Solid	5035	
880-37779-26	CS-26 (2.0')	Total/NA	Solid	5035	
880-37779-27	CS-27 (2.0')	Total/NA	Solid	5035	
880-37779-28	CS-28 (2.0')	Total/NA	Solid	5035	
880-37779-29	CS-29 (2.0')	Total/NA	Solid	5035	
880-37779-30	CS-30 (2.0')	Total/NA	Solid	5035	
880-37779-31	CS-31 (2.0')	Total/NA	Solid	5035	
880-37779-32	CS-32 (2.0')	Total/NA	Solid	5035	
880-37779-33	CS-33 (2.0')	Total/NA	Solid	5035	
880-37779-34	CS-34 (2.0')	Total/NA	Solid	5035	
880-37779-35	CS-35 (2.0')	Total/NA	Solid	5035	
880-37779-36	CS-36 (2.0')	Total/NA	Solid	5035	
880-37779-37	CS-37 (2.0')	Total/NA	Solid	5035	
880-37779-38	CS-38 (2.0')	Total/NA	Solid	5035	
880-37779-39	CS-39 (2.0')	Total/NA	Solid	5035	
880-37779-40	CS-40 (2.0')	Total/NA	Solid	5035	
MB 880-70591/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70591/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70591/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 70591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-21 MS	CS-21 (2.0')	Total/NA	Solid	5035	
880-37779-21 MSD	CS-21 (2.0')	Total/NA	Solid	5035	

Prep Batch: 70594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-41	CS-41 (2.0')	Total/NA	Solid	5035	
880-37779-42	CS-42 (2.0')	Total/NA	Solid	5035	
880-37779-43	CS-43 (2.0')	Total/NA	Solid	5035	
880-37779-44	CS-44 (2.0')	Total/NA	Solid	5035	
880-37779-45	CS-45 (2.0')	Total/NA	Solid	5035	
880-37779-46	CS-46 (2.0')	Total/NA	Solid	5035	
880-37779-47	CS-47 (2.0')	Total/NA	Solid	5035	
880-37779-48	CS-48 (2.0')	Total/NA	Solid	5035	
880-37779-49	CS-49 (2.0')	Total/NA	Solid	5035	
880-37779-50	CS-50 (2.0')	Total/NA	Solid	5035	
880-37779-51	SW-1 (1.5')	Total/NA	Solid	5035	
880-37779-52	SW-2 (1.5')	Total/NA	Solid	5035	
880-37779-53	SW-3 (1.5')	Total/NA	Solid	5035	
880-37779-54	SW-4 (0.5')	Total/NA	Solid	5035	
880-37779-55	SW-5 (2.0')	Total/NA	Solid	5035	
880-37779-56	SW-6 (2.0')	Total/NA	Solid	5035	
880-37779-57	SW-7 (2.0')	Total/NA	Solid	5035	
880-37779-58	SW-8 (2.0')	Total/NA	Solid	5035	
880-37779-59	SW-9 (2.0')	Total/NA	Solid	5035	
880-37779-60	SW-10 (2.0')	Total/NA	Solid	5035	
MB 880-70594/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70594/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70594/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37779-41 MS	CS-41 (2.0')	Total/NA	Solid	5035	
880-37779-41 MSD	CS-41 (2.0')	Total/NA	Solid	5035	

Prep Batch: 70596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-61	SW-11 (2.0')	Total/NA	Solid	5035	
880-37779-62	SW-12 (2.0')	Total/NA	Solid	5035	
880-37779-63	SW-13 (2.0')	Total/NA	Solid	5035	
880-37779-64	SW-14 (2.0')	Total/NA	Solid	5035	
880-37779-65	SW-15 (2.0')	Total/NA	Solid	5035	
880-37779-66	SW-16 (2.0')	Total/NA	Solid	5035	
MB 880-70596/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70596/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70596/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37779-61 MS	SW-11 (2.0')	Total/NA	Solid	5035	
880-37779-61 MSD	SW-11 (2.0')	Total/NA	Solid	5035	

Analysis Batch: 70627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-61	SW-11 (2.0')	Total/NA	Solid	8021B	70596
880-37779-62	SW-12 (2.0')	Total/NA	Solid	8021B	70596
880-37779-63	SW-13 (2.0')	Total/NA	Solid	8021B	70596
880-37779-64	SW-14 (2.0')	Total/NA	Solid	8021B	70596

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QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 70627 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-65	SW-15 (2.0')	Total/NA	Solid	8021B	70596
880-37779-66	SW-16 (2.0')	Total/NA	Solid	8021B	70596
MB 880-70596/5-A	Method Blank	Total/NA	Solid	8021B	70596
LCS 880-70596/1-A	Lab Control Sample	Total/NA	Solid	8021B	70596
LCSD 880-70596/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70596
880-37779-61 MS	SW-11 (2.0')	Total/NA	Solid	8021B	70596
880-37779-61 MSD	SW-11 (2.0')	Total/NA	Solid	8021B	70596

Analysis Batch: 70755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-1	CS-1 (1.5')	Total/NA	Solid	8021B	70589
880-37779-2	CS-2 (1.5')	Total/NA	Solid	8021B	70589
880-37779-3	CS-3 (1.5')	Total/NA	Solid	8021B	70589
880-37779-4	CS-4 (1.5')	Total/NA	Solid	8021B	70589
880-37779-5	CS-5 (1.5')	Total/NA	Solid	8021B	70589
880-37779-6	CS-6 (1.5')	Total/NA	Solid	8021B	70589
880-37779-7	CS-7 (1.5')	Total/NA	Solid	8021B	70589
880-37779-8	CS-8 (1.5')	Total/NA	Solid	8021B	70589
880-37779-9	CS-9 (1.5')	Total/NA	Solid	8021B	70589
880-37779-10	CS-10 (1.5')	Total/NA	Solid	8021B	70589
880-37779-11	CS-11 (1.5')	Total/NA	Solid	8021B	70589
880-37779-12	CS-12 (1.5')	Total/NA	Solid	8021B	70589
880-37779-13	CS-13 (2.0')	Total/NA	Solid	8021B	70589
880-37779-14	CS-14 (2.0')	Total/NA	Solid	8021B	70589
880-37779-15	CS-15 (2.0')	Total/NA	Solid	8021B	70589
880-37779-16	CS-16 (2.0')	Total/NA	Solid	8021B	70589
880-37779-17	CS-17 (2.0')	Total/NA	Solid	8021B	70589
880-37779-18	CS-18 (2.0')	Total/NA	Solid	8021B	70589
880-37779-19	CS-19 (2.0')	Total/NA	Solid	8021B	70589
880-37779-20	CS-20 (2.0')	Total/NA	Solid	8021B	70589
880-37779-21	CS-21 (2.0')	Total/NA	Solid	8021B	70591
880-37779-22	CS-22 (2.0')	Total/NA	Solid	8021B	70591
880-37779-23	CS-23 (2.0')	Total/NA	Solid	8021B	70591
880-37779-24	CS-24 (2.0')	Total/NA	Solid	8021B	70591
880-37779-25	CS-25 (2.0')	Total/NA	Solid	8021B	70591
880-37779-26	CS-26 (2.0')	Total/NA	Solid	8021B	70591
880-37779-27	CS-27 (2.0')	Total/NA	Solid	8021B	70591
880-37779-28	CS-28 (2.0')	Total/NA	Solid	8021B	70591
880-37779-29	CS-29 (2.0')	Total/NA	Solid	8021B	70591
880-37779-30	CS-30 (2.0')	Total/NA	Solid	8021B	70591
880-37779-31	CS-31 (2.0')	Total/NA	Solid	8021B	70591
880-37779-32	CS-32 (2.0')	Total/NA	Solid	8021B	70591
880-37779-33	CS-33 (2.0')	Total/NA	Solid	8021B	70591
880-37779-34	CS-34 (2.0')	Total/NA	Solid	8021B	70591
880-37779-35	CS-35 (2.0')	Total/NA	Solid	8021B	70591
880-37779-36	CS-36 (2.0')	Total/NA	Solid	8021B	70591
880-37779-37	CS-37 (2.0')	Total/NA	Solid	8021B	70591
880-37779-38	CS-38 (2.0')	Total/NA	Solid	8021B	70591
880-37779-39	CS-39 (2.0')	Total/NA	Solid	8021B	70591
880-37779-40	CS-40 (2.0')	Total/NA	Solid	8021B	70591
880-37779-41	CS-41 (2.0')	Total/NA	Solid	8021B	70594

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 70755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-42	CS-42 (2.0')	Total/NA	Solid	8021B	70594
880-37779-43	CS-43 (2.0')	Total/NA	Solid	8021B	70594
880-37779-44	CS-44 (2.0')	Total/NA	Solid	8021B	70594
880-37779-45	CS-45 (2.0')	Total/NA	Solid	8021B	70594
880-37779-46	CS-46 (2.0')	Total/NA	Solid	8021B	70594
880-37779-47	CS-47 (2.0')	Total/NA	Solid	8021B	70594
880-37779-48	CS-48 (2.0')	Total/NA	Solid	8021B	70594
880-37779-49	CS-49 (2.0')	Total/NA	Solid	8021B	70594
880-37779-50	CS-50 (2.0')	Total/NA	Solid	8021B	70594
880-37779-51	SW-1 (1.5')	Total/NA	Solid	8021B	70594
880-37779-52	SW-2 (1.5')	Total/NA	Solid	8021B	70594
880-37779-53	SW-3 (1.5')	Total/NA	Solid	8021B	70594
880-37779-54	SW-4 (0.5')	Total/NA	Solid	8021B	70594
880-37779-55	SW-5 (2.0')	Total/NA	Solid	8021B	70594
880-37779-56	SW-6 (2.0')	Total/NA	Solid	8021B	70594
880-37779-57	SW-7 (2.0')	Total/NA	Solid	8021B	70594
880-37779-58	SW-8 (2.0')	Total/NA	Solid	8021B	70594
880-37779-59	SW-9 (2.0')	Total/NA	Solid	8021B	70594
880-37779-60	SW-10 (2.0')	Total/NA	Solid	8021B	70594
MB 880-70589/5-A	Method Blank	Total/NA	Solid	8021B	70589
MB 880-70591/5-A	Method Blank	Total/NA	Solid	8021B	70591
MB 880-70594/5-A	Method Blank	Total/NA	Solid	8021B	70594
LCS 880-70589/1-A	Lab Control Sample	Total/NA	Solid	8021B	70589
LCS 880-70591/1-A	Lab Control Sample	Total/NA	Solid	8021B	70591
LCS 880-70594/1-A	Lab Control Sample	Total/NA	Solid	8021B	70594
LCSD 880-70589/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70589
LCSD 880-70591/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70591
LCSD 880-70594/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70594
880-37779-1 MS	CS-1 (1.5')	Total/NA	Solid	8021B	70589
880-37779-1 MSD	CS-1 (1.5')	Total/NA	Solid	8021B	70589
880-37779-21 MS	CS-21 (2.0')	Total/NA	Solid	8021B	70591
880-37779-21 MSD	CS-21 (2.0')	Total/NA	Solid	8021B	70591
880-37779-41 MS	CS-41 (2.0')	Total/NA	Solid	8021B	70594
880-37779-41 MSD	CS-41 (2.0')	Total/NA	Solid	8021B	70594

Analysis Batch: 70762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-1	CS-1 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-2	CS-2 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-3	CS-3 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-4	CS-4 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-5	CS-5 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-6	CS-6 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-7	CS-7 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-8	CS-8 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-9	CS-9 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-10	CS-10 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-11	CS-11 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-12	CS-12 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-13	CS-13 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-14	CS-14 (2.0')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 70762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-15	CS-15 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-16	CS-16 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-17	CS-17 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-18	CS-18 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-19	CS-19 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-20	CS-20 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-21	CS-21 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-22	CS-22 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-23	CS-23 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-24	CS-24 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-25	CS-25 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-26	CS-26 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-27	CS-27 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-28	CS-28 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-29	CS-29 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-30	CS-30 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-31	CS-31 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-32	CS-32 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-33	CS-33 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-34	CS-34 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-35	CS-35 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-36	CS-36 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-37	CS-37 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-38	CS-38 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-39	CS-39 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-40	CS-40 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-41	CS-41 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-42	CS-42 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-43	CS-43 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-44	CS-44 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-45	CS-45 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-46	CS-46 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-47	CS-47 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-48	CS-48 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-49	CS-49 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-50	CS-50 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-51	SW-1 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-52	SW-2 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-53	SW-3 (1.5')	Total/NA	Solid	Total BTEX	
880-37779-54	SW-4 (0.5')	Total/NA	Solid	Total BTEX	
880-37779-55	SW-5 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-56	SW-6 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-57	SW-7 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-58	SW-8 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-59	SW-9 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-60	SW-10 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-61	SW-11 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-62	SW-12 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-63	SW-13 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-64	SW-14 (2.0')	Total/NA	Solid	Total BTEX	
880-37779-65	SW-15 (2.0')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 70762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-66	SW-16 (2.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-65	SW-15 (2.0')	Total/NA	Solid	8015B NM	70593
880-37779-66	SW-16 (2.0')	Total/NA	Solid	8015B NM	70593
MB 880-70593/1-A	Method Blank	Total/NA	Solid	8015B NM	70593
LCS 880-70593/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70593
LCSD 880-70593/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70593
880-37681-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	70593
880-37681-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70593

Prep Batch: 70593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-65	SW-15 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-66	SW-16 (2.0')	Total/NA	Solid	8015NM Prep	
MB 880-70593/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70593/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70593/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37681-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37681-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 70610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-1	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-3	CS-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-4	CS-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-5	CS-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-6	CS-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-7	CS-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-8	CS-8 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-9	CS-9 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-10	CS-10 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-11	CS-11 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-12	CS-12 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-13	CS-13 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-14	CS-14 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-15	CS-15 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-16	CS-16 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-17	CS-17 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-18	CS-18 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-19	CS-19 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-20	CS-20 (2.0')	Total/NA	Solid	8015NM Prep	
MB 880-70610/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70610/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70610/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37779-1 MS	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-1 MSD	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC Semi VOA

Prep Batch: 70611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-21	CS-21 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-22	CS-22 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-23	CS-23 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-24	CS-24 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-25	CS-25 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-26	CS-26 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-27	CS-27 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-28	CS-28 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-29	CS-29 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-30	CS-30 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-31	CS-31 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-32	CS-32 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-33	CS-33 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-34	CS-34 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-35	CS-35 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-36	CS-36 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-37	CS-37 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-38	CS-38 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-39	CS-39 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-40	CS-40 (2.0')	Total/NA	Solid	8015NM Prep	
MB 880-70611/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70611/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70611/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37779-21 MS	CS-21 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-21 MSD	CS-21 (2.0')	Total/NA	Solid	8015NM Prep	

Prep Batch: 70613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-41	CS-41 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-42	CS-42 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-43	CS-43 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-44	CS-44 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-45	CS-45 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-46	CS-46 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-47	CS-47 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-48	CS-48 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-49	CS-49 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-50	CS-50 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-51	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-52	SW-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-53	SW-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-37779-54	SW-4 (0.5')	Total/NA	Solid	8015NM Prep	
880-37779-55	SW-5 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-56	SW-6 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-57	SW-7 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-58	SW-8 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-59	SW-9 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-60	SW-10 (2.0')	Total/NA	Solid	8015NM Prep	
MB 880-70613/1-A - RA2	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70613/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70613/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 70613 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-41 MS	CS-41 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-41 MSD	CS-41 (2.0')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-1	CS-1 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-3	CS-3 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-4	CS-4 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-5	CS-5 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-6	CS-6 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-7	CS-7 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-8	CS-8 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-9	CS-9 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-10	CS-10 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-11	CS-11 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-12	CS-12 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-13	CS-13 (2.0')	Total/NA	Solid	8015B NM	70610
880-37779-14	CS-14 (2.0')	Total/NA	Solid	8015B NM	70610
880-37779-15	CS-15 (2.0')	Total/NA	Solid	8015B NM	70610
880-37779-16	CS-16 (2.0')	Total/NA	Solid	8015B NM	70610
880-37779-17	CS-17 (2.0')	Total/NA	Solid	8015B NM	70610
880-37779-18	CS-18 (2.0')	Total/NA	Solid	8015B NM	70610
880-37779-19	CS-19 (2.0')	Total/NA	Solid	8015B NM	70610
880-37779-20	CS-20 (2.0')	Total/NA	Solid	8015B NM	70610
MB 880-70610/1-A	Method Blank	Total/NA	Solid	8015B NM	70610
LCS 880-70610/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70610
LCSD 880-70610/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70610
880-37779-1 MS	CS-1 (1.5')	Total/NA	Solid	8015B NM	70610
880-37779-1 MSD	CS-1 (1.5')	Total/NA	Solid	8015B NM	70610

Analysis Batch: 70619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-21	CS-21 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-22	CS-22 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-23	CS-23 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-24	CS-24 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-25	CS-25 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-26	CS-26 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-27	CS-27 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-28	CS-28 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-29	CS-29 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-30	CS-30 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-31	CS-31 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-32	CS-32 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-33	CS-33 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-34	CS-34 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-35	CS-35 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-36	CS-36 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-37	CS-37 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-38	CS-38 (2.0')	Total/NA	Solid	8015B NM	70611

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 70619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-39	CS-39 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-40	CS-40 (2.0')	Total/NA	Solid	8015B NM	70611
MB 880-70611/1-A	Method Blank	Total/NA	Solid	8015B NM	70611
LCS 880-70611/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70611
LCSD 880-70611/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70611
880-37779-21 MS	CS-21 (2.0')	Total/NA	Solid	8015B NM	70611
880-37779-21 MSD	CS-21 (2.0')	Total/NA	Solid	8015B NM	70611

Analysis Batch: 70623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-41	CS-41 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-42	CS-42 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-43	CS-43 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-44	CS-44 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-45	CS-45 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-46	CS-46 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-47	CS-47 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-48	CS-48 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-49	CS-49 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-50	CS-50 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-51	SW-1 (1.5')	Total/NA	Solid	8015B NM	70613
880-37779-52	SW-2 (1.5')	Total/NA	Solid	8015B NM	70613
880-37779-53	SW-3 (1.5')	Total/NA	Solid	8015B NM	70613
880-37779-54	SW-4 (0.5')	Total/NA	Solid	8015B NM	70613
880-37779-55	SW-5 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-56	SW-6 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-57	SW-7 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-58	SW-8 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-59	SW-9 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-60	SW-10 (2.0')	Total/NA	Solid	8015B NM	70613
MB 880-70613/1-A - RA2	Method Blank	Total/NA	Solid	8015B NM	70613
LCS 880-70613/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70613
LCSD 880-70613/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70613
880-37779-41 MS	CS-41 (2.0')	Total/NA	Solid	8015B NM	70613
880-37779-41 MSD	CS-41 (2.0')	Total/NA	Solid	8015B NM	70613

Analysis Batch: 70643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-1	CS-1 (1.5')	Total/NA	Solid	8015 NM	
880-37779-2	CS-2 (1.5')	Total/NA	Solid	8015 NM	
880-37779-3	CS-3 (1.5')	Total/NA	Solid	8015 NM	
880-37779-4	CS-4 (1.5')	Total/NA	Solid	8015 NM	
880-37779-5	CS-5 (1.5')	Total/NA	Solid	8015 NM	
880-37779-6	CS-6 (1.5')	Total/NA	Solid	8015 NM	
880-37779-7	CS-7 (1.5')	Total/NA	Solid	8015 NM	
880-37779-8	CS-8 (1.5')	Total/NA	Solid	8015 NM	
880-37779-9	CS-9 (1.5')	Total/NA	Solid	8015 NM	
880-37779-10	CS-10 (1.5')	Total/NA	Solid	8015 NM	
880-37779-11	CS-11 (1.5')	Total/NA	Solid	8015 NM	
880-37779-12	CS-12 (1.5')	Total/NA	Solid	8015 NM	
880-37779-13	CS-13 (2.0')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 70643 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-14	CS-14 (2.0')	Total/NA	Solid	8015 NM	
880-37779-15	CS-15 (2.0')	Total/NA	Solid	8015 NM	
880-37779-16	CS-16 (2.0')	Total/NA	Solid	8015 NM	
880-37779-17	CS-17 (2.0')	Total/NA	Solid	8015 NM	
880-37779-18	CS-18 (2.0')	Total/NA	Solid	8015 NM	
880-37779-19	CS-19 (2.0')	Total/NA	Solid	8015 NM	
880-37779-20	CS-20 (2.0')	Total/NA	Solid	8015 NM	
880-37779-21	CS-21 (2.0')	Total/NA	Solid	8015 NM	
880-37779-22	CS-22 (2.0')	Total/NA	Solid	8015 NM	
880-37779-23	CS-23 (2.0')	Total/NA	Solid	8015 NM	
880-37779-24	CS-24 (2.0')	Total/NA	Solid	8015 NM	
880-37779-25	CS-25 (2.0')	Total/NA	Solid	8015 NM	
880-37779-26	CS-26 (2.0')	Total/NA	Solid	8015 NM	
880-37779-27	CS-27 (2.0')	Total/NA	Solid	8015 NM	
880-37779-28	CS-28 (2.0')	Total/NA	Solid	8015 NM	
880-37779-29	CS-29 (2.0')	Total/NA	Solid	8015 NM	
880-37779-30	CS-30 (2.0')	Total/NA	Solid	8015 NM	
880-37779-31	CS-31 (2.0')	Total/NA	Solid	8015 NM	
880-37779-32	CS-32 (2.0')	Total/NA	Solid	8015 NM	
880-37779-33	CS-33 (2.0')	Total/NA	Solid	8015 NM	
880-37779-34	CS-34 (2.0')	Total/NA	Solid	8015 NM	
880-37779-35	CS-35 (2.0')	Total/NA	Solid	8015 NM	
880-37779-36	CS-36 (2.0')	Total/NA	Solid	8015 NM	
880-37779-37	CS-37 (2.0')	Total/NA	Solid	8015 NM	
880-37779-38	CS-38 (2.0')	Total/NA	Solid	8015 NM	
880-37779-39	CS-39 (2.0')	Total/NA	Solid	8015 NM	
880-37779-40	CS-40 (2.0')	Total/NA	Solid	8015 NM	
880-37779-41	CS-41 (2.0')	Total/NA	Solid	8015 NM	
880-37779-42	CS-42 (2.0')	Total/NA	Solid	8015 NM	
880-37779-43	CS-43 (2.0')	Total/NA	Solid	8015 NM	
880-37779-44	CS-44 (2.0')	Total/NA	Solid	8015 NM	
880-37779-45	CS-45 (2.0')	Total/NA	Solid	8015 NM	
880-37779-46	CS-46 (2.0')	Total/NA	Solid	8015 NM	
880-37779-47	CS-47 (2.0')	Total/NA	Solid	8015 NM	
880-37779-48	CS-48 (2.0')	Total/NA	Solid	8015 NM	
880-37779-49	CS-49 (2.0')	Total/NA	Solid	8015 NM	
880-37779-50	CS-50 (2.0')	Total/NA	Solid	8015 NM	
880-37779-51	SW-1 (1.5')	Total/NA	Solid	8015 NM	
880-37779-52	SW-2 (1.5')	Total/NA	Solid	8015 NM	
880-37779-53	SW-3 (1.5')	Total/NA	Solid	8015 NM	
880-37779-54	SW-4 (0.5')	Total/NA	Solid	8015 NM	
880-37779-55	SW-5 (2.0')	Total/NA	Solid	8015 NM	
880-37779-56	SW-6 (2.0')	Total/NA	Solid	8015 NM	
880-37779-57	SW-7 (2.0')	Total/NA	Solid	8015 NM	
880-37779-58	SW-8 (2.0')	Total/NA	Solid	8015 NM	
880-37779-59	SW-9 (2.0')	Total/NA	Solid	8015 NM	
880-37779-60	SW-10 (2.0')	Total/NA	Solid	8015 NM	
880-37779-61	SW-11 (2.0')	Total/NA	Solid	8015 NM	
880-37779-62	SW-12 (2.0')	Total/NA	Solid	8015 NM	
880-37779-63	SW-13 (2.0')	Total/NA	Solid	8015 NM	
880-37779-64	SW-14 (2.0')	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 70643 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-65	SW-15 (2.0')	Total/NA	Solid	8015 NM	
880-37779-66	SW-16 (2.0')	Total/NA	Solid	8015 NM	

Analysis Batch: 70705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-61	SW-11 (2.0')	Total/NA	Solid	8015B NM	70723
880-37779-62	SW-12 (2.0')	Total/NA	Solid	8015B NM	70723
880-37779-63	SW-13 (2.0')	Total/NA	Solid	8015B NM	70723
880-37779-64	SW-14 (2.0')	Total/NA	Solid	8015B NM	70723
MB 880-70723/1-A	Method Blank	Total/NA	Solid	8015B NM	70723
LCS 880-70723/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70723
LCSD 880-70723/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70723
880-37779-61 MS	SW-11 (2.0')	Total/NA	Solid	8015B NM	70723
880-37779-61 MSD	SW-11 (2.0')	Total/NA	Solid	8015B NM	70723

Prep Batch: 70723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-61	SW-11 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-62	SW-12 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-63	SW-13 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-64	SW-14 (2.0')	Total/NA	Solid	8015NM Prep	
MB 880-70723/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70723/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70723/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37779-61 MS	SW-11 (2.0')	Total/NA	Solid	8015NM Prep	
880-37779-61 MSD	SW-11 (2.0')	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 70592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-1	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-37779-2	CS-2 (1.5')	Soluble	Solid	DI Leach	
880-37779-3	CS-3 (1.5')	Soluble	Solid	DI Leach	
880-37779-4	CS-4 (1.5')	Soluble	Solid	DI Leach	
880-37779-5	CS-5 (1.5')	Soluble	Solid	DI Leach	
880-37779-6	CS-6 (1.5')	Soluble	Solid	DI Leach	
880-37779-7	CS-7 (1.5')	Soluble	Solid	DI Leach	
880-37779-8	CS-8 (1.5')	Soluble	Solid	DI Leach	
880-37779-9	CS-9 (1.5')	Soluble	Solid	DI Leach	
880-37779-10	CS-10 (1.5')	Soluble	Solid	DI Leach	
880-37779-11	CS-11 (1.5')	Soluble	Solid	DI Leach	
880-37779-12	CS-12 (1.5')	Soluble	Solid	DI Leach	
880-37779-13	CS-13 (2.0')	Soluble	Solid	DI Leach	
880-37779-14	CS-14 (2.0')	Soluble	Solid	DI Leach	
880-37779-15	CS-15 (2.0')	Soluble	Solid	DI Leach	
880-37779-16	CS-16 (2.0')	Soluble	Solid	DI Leach	
880-37779-17	CS-17 (2.0')	Soluble	Solid	DI Leach	
880-37779-18	CS-18 (2.0')	Soluble	Solid	DI Leach	
880-37779-19	CS-19 (2.0')	Soluble	Solid	DI Leach	
880-37779-20	CS-20 (2.0')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 70592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70592/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70592/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70592/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37779-1 MS	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-37779-1 MSD	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-37779-11 MS	CS-11 (1.5')	Soluble	Solid	DI Leach	
880-37779-11 MSD	CS-11 (1.5')	Soluble	Solid	DI Leach	

Leach Batch: 70605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-21	CS-21 (2.0')	Soluble	Solid	DI Leach	
880-37779-22	CS-22 (2.0')	Soluble	Solid	DI Leach	
880-37779-23	CS-23 (2.0')	Soluble	Solid	DI Leach	
880-37779-24	CS-24 (2.0')	Soluble	Solid	DI Leach	
880-37779-25	CS-25 (2.0')	Soluble	Solid	DI Leach	
880-37779-26	CS-26 (2.0')	Soluble	Solid	DI Leach	
880-37779-27	CS-27 (2.0')	Soluble	Solid	DI Leach	
880-37779-28	CS-28 (2.0')	Soluble	Solid	DI Leach	
880-37779-29	CS-29 (2.0')	Soluble	Solid	DI Leach	
880-37779-30	CS-30 (2.0')	Soluble	Solid	DI Leach	
880-37779-31	CS-31 (2.0')	Soluble	Solid	DI Leach	
880-37779-32	CS-32 (2.0')	Soluble	Solid	DI Leach	
880-37779-33	CS-33 (2.0')	Soluble	Solid	DI Leach	
880-37779-34	CS-34 (2.0')	Soluble	Solid	DI Leach	
880-37779-35	CS-35 (2.0')	Soluble	Solid	DI Leach	
880-37779-36	CS-36 (2.0')	Soluble	Solid	DI Leach	
880-37779-37	CS-37 (2.0')	Soluble	Solid	DI Leach	
880-37779-38	CS-38 (2.0')	Soluble	Solid	DI Leach	
880-37779-39	CS-39 (2.0')	Soluble	Solid	DI Leach	
880-37779-40	CS-40 (2.0')	Soluble	Solid	DI Leach	
MB 880-70605/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70605/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70605/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37779-21 MS	CS-21 (2.0')	Soluble	Solid	DI Leach	
880-37779-21 MSD	CS-21 (2.0')	Soluble	Solid	DI Leach	
880-37779-31 MS	CS-31 (2.0')	Soluble	Solid	DI Leach	
880-37779-31 MSD	CS-31 (2.0')	Soluble	Solid	DI Leach	

Leach Batch: 70608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-41	CS-41 (2.0')	Soluble	Solid	DI Leach	
880-37779-42	CS-42 (2.0')	Soluble	Solid	DI Leach	
880-37779-43	CS-43 (2.0')	Soluble	Solid	DI Leach	
880-37779-44	CS-44 (2.0')	Soluble	Solid	DI Leach	
880-37779-45	CS-45 (2.0')	Soluble	Solid	DI Leach	
880-37779-46	CS-46 (2.0')	Soluble	Solid	DI Leach	
880-37779-47	CS-47 (2.0')	Soluble	Solid	DI Leach	
880-37779-48	CS-48 (2.0')	Soluble	Solid	DI Leach	
880-37779-49	CS-49 (2.0')	Soluble	Solid	DI Leach	
880-37779-50	CS-50 (2.0')	Soluble	Solid	DI Leach	
880-37779-51	SW-1 (1.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 70608 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-52	SW-2 (1.5')	Soluble	Solid	DI Leach	
880-37779-53	SW-3 (1.5')	Soluble	Solid	DI Leach	
880-37779-54	SW-4 (0.5')	Soluble	Solid	DI Leach	
880-37779-55	SW-5 (2.0')	Soluble	Solid	DI Leach	
880-37779-56	SW-6 (2.0')	Soluble	Solid	DI Leach	
880-37779-57	SW-7 (2.0')	Soluble	Solid	DI Leach	
880-37779-59	SW-9 (2.0')	Soluble	Solid	DI Leach	
880-37779-60	SW-10 (2.0')	Soluble	Solid	DI Leach	
MB 880-70608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37779-41 MS	CS-41 (2.0')	Soluble	Solid	DI Leach	
880-37779-41 MSD	CS-41 (2.0')	Soluble	Solid	DI Leach	
880-37779-51 MS	SW-1 (1.5')	Soluble	Solid	DI Leach	
880-37779-51 MSD	SW-1 (1.5')	Soluble	Solid	DI Leach	

Leach Batch: 70612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-58	SW-8 (2.0')	Soluble	Solid	DI Leach	
880-37779-64	SW-14 (2.0')	Soluble	Solid	DI Leach	
880-37779-65	SW-15 (2.0')	Soluble	Solid	DI Leach	
880-37779-66	SW-16 (2.0')	Soluble	Solid	DI Leach	
MB 880-70612/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70612/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70612/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37779-58 MS	SW-8 (2.0')	Soluble	Solid	DI Leach	
880-37779-58 MSD	SW-8 (2.0')	Soluble	Solid	DI Leach	

Analysis Batch: 70632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-1	CS-1 (1.5')	Soluble	Solid	300.0	70592
880-37779-2	CS-2 (1.5')	Soluble	Solid	300.0	70592
880-37779-3	CS-3 (1.5')	Soluble	Solid	300.0	70592
880-37779-4	CS-4 (1.5')	Soluble	Solid	300.0	70592
880-37779-5	CS-5 (1.5')	Soluble	Solid	300.0	70592
880-37779-6	CS-6 (1.5')	Soluble	Solid	300.0	70592
880-37779-7	CS-7 (1.5')	Soluble	Solid	300.0	70592
880-37779-8	CS-8 (1.5')	Soluble	Solid	300.0	70592
880-37779-9	CS-9 (1.5')	Soluble	Solid	300.0	70592
880-37779-10	CS-10 (1.5')	Soluble	Solid	300.0	70592
880-37779-11	CS-11 (1.5')	Soluble	Solid	300.0	70592
880-37779-12	CS-12 (1.5')	Soluble	Solid	300.0	70592
880-37779-13	CS-13 (2.0')	Soluble	Solid	300.0	70592
880-37779-14	CS-14 (2.0')	Soluble	Solid	300.0	70592
880-37779-15	CS-15 (2.0')	Soluble	Solid	300.0	70592
880-37779-16	CS-16 (2.0')	Soluble	Solid	300.0	70592
880-37779-17	CS-17 (2.0')	Soluble	Solid	300.0	70592
880-37779-18	CS-18 (2.0')	Soluble	Solid	300.0	70592
880-37779-19	CS-19 (2.0')	Soluble	Solid	300.0	70592
880-37779-20	CS-20 (2.0')	Soluble	Solid	300.0	70592
MB 880-70592/1-A	Method Blank	Soluble	Solid	300.0	70592

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 70632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-70592/2-A	Lab Control Sample	Soluble	Solid	300.0	70592
LCSD 880-70592/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70592
880-37779-1 MS	CS-1 (1.5')	Soluble	Solid	300.0	70592
880-37779-1 MSD	CS-1 (1.5')	Soluble	Solid	300.0	70592
880-37779-11 MS	CS-11 (1.5')	Soluble	Solid	300.0	70592
880-37779-11 MSD	CS-11 (1.5')	Soluble	Solid	300.0	70592

Analysis Batch: 70633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-21	CS-21 (2.0')	Soluble	Solid	300.0	70605
880-37779-22	CS-22 (2.0')	Soluble	Solid	300.0	70605
880-37779-23	CS-23 (2.0')	Soluble	Solid	300.0	70605
880-37779-24	CS-24 (2.0')	Soluble	Solid	300.0	70605
880-37779-25	CS-25 (2.0')	Soluble	Solid	300.0	70605
880-37779-26	CS-26 (2.0')	Soluble	Solid	300.0	70605
880-37779-27	CS-27 (2.0')	Soluble	Solid	300.0	70605
880-37779-28	CS-28 (2.0')	Soluble	Solid	300.0	70605
880-37779-29	CS-29 (2.0')	Soluble	Solid	300.0	70605
880-37779-30	CS-30 (2.0')	Soluble	Solid	300.0	70605
880-37779-31	CS-31 (2.0')	Soluble	Solid	300.0	70605
880-37779-32	CS-32 (2.0')	Soluble	Solid	300.0	70605
880-37779-33	CS-33 (2.0')	Soluble	Solid	300.0	70605
880-37779-34	CS-34 (2.0')	Soluble	Solid	300.0	70605
880-37779-35	CS-35 (2.0')	Soluble	Solid	300.0	70605
880-37779-36	CS-36 (2.0')	Soluble	Solid	300.0	70605
880-37779-37	CS-37 (2.0')	Soluble	Solid	300.0	70605
880-37779-38	CS-38 (2.0')	Soluble	Solid	300.0	70605
880-37779-39	CS-39 (2.0')	Soluble	Solid	300.0	70605
880-37779-40	CS-40 (2.0')	Soluble	Solid	300.0	70605
MB 880-70605/1-A	Method Blank	Soluble	Solid	300.0	70605
LCS 880-70605/2-A	Lab Control Sample	Soluble	Solid	300.0	70605
LCSD 880-70605/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70605
880-37779-21 MS	CS-21 (2.0')	Soluble	Solid	300.0	70605
880-37779-21 MSD	CS-21 (2.0')	Soluble	Solid	300.0	70605
880-37779-31 MS	CS-31 (2.0')	Soluble	Solid	300.0	70605
880-37779-31 MSD	CS-31 (2.0')	Soluble	Solid	300.0	70605

Analysis Batch: 70635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-41	CS-41 (2.0')	Soluble	Solid	300.0	70608
880-37779-42	CS-42 (2.0')	Soluble	Solid	300.0	70608
880-37779-43	CS-43 (2.0')	Soluble	Solid	300.0	70608
880-37779-44	CS-44 (2.0')	Soluble	Solid	300.0	70608
880-37779-45	CS-45 (2.0')	Soluble	Solid	300.0	70608
880-37779-46	CS-46 (2.0')	Soluble	Solid	300.0	70608
880-37779-47	CS-47 (2.0')	Soluble	Solid	300.0	70608
880-37779-48	CS-48 (2.0')	Soluble	Solid	300.0	70608
880-37779-49	CS-49 (2.0')	Soluble	Solid	300.0	70608
880-37779-50	CS-50 (2.0')	Soluble	Solid	300.0	70608
880-37779-51	SW-1 (1.5')	Soluble	Solid	300.0	70608
880-37779-52	SW-2 (1.5')	Soluble	Solid	300.0	70608

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QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 70635 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-53	SW-3 (1.5')	Soluble	Solid	300.0	70608
880-37779-54	SW-4 (0.5')	Soluble	Solid	300.0	70608
880-37779-55	SW-5 (2.0')	Soluble	Solid	300.0	70608
880-37779-56	SW-6 (2.0')	Soluble	Solid	300.0	70608
880-37779-57	SW-7 (2.0')	Soluble	Solid	300.0	70608
MB 880-70608/1-A	Method Blank	Soluble	Solid	300.0	70608
LCS 880-70608/2-A	Lab Control Sample	Soluble	Solid	300.0	70608
LCSD 880-70608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70608
880-37779-41 MS	CS-41 (2.0')	Soluble	Solid	300.0	70608
880-37779-41 MSD	CS-41 (2.0')	Soluble	Solid	300.0	70608
880-37779-51 MS	SW-1 (1.5')	Soluble	Solid	300.0	70608
880-37779-51 MSD	SW-1 (1.5')	Soluble	Solid	300.0	70608

Analysis Batch: 70696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-58	SW-8 (2.0')	Soluble	Solid	300.0	70612
880-37779-59	SW-9 (2.0')	Soluble	Solid	300.0	70608
880-37779-60	SW-10 (2.0')	Soluble	Solid	300.0	70608
880-37779-64	SW-14 (2.0')	Soluble	Solid	300.0	70612
880-37779-65	SW-15 (2.0')	Soluble	Solid	300.0	70612
880-37779-66	SW-16 (2.0')	Soluble	Solid	300.0	70612
MB 880-70612/1-A	Method Blank	Soluble	Solid	300.0	70612
LCS 880-70612/2-A	Lab Control Sample	Soluble	Solid	300.0	70612
LCSD 880-70612/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70612
880-37779-58 MS	SW-8 (2.0')	Soluble	Solid	300.0	70612
880-37779-58 MSD	SW-8 (2.0')	Soluble	Solid	300.0	70612

Leach Batch: 70713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-61	SW-11 (2.0')	Soluble	Solid	DI Leach	
880-37779-62	SW-12 (2.0')	Soluble	Solid	DI Leach	
880-37779-63	SW-13 (2.0')	Soluble	Solid	DI Leach	
MB 880-70713/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70713/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70713/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37779-61 MS	SW-11 (2.0')	Soluble	Solid	DI Leach	
880-37779-61 MSD	SW-11 (2.0')	Soluble	Solid	DI Leach	

Analysis Batch: 70727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37779-61	SW-11 (2.0')	Soluble	Solid	300.0	70713
880-37779-62	SW-12 (2.0')	Soluble	Solid	300.0	70713
880-37779-63	SW-13 (2.0')	Soluble	Solid	300.0	70713
MB 880-70713/1-A	Method Blank	Soluble	Solid	300.0	70713
LCS 880-70713/2-A	Lab Control Sample	Soluble	Solid	300.0	70713
LCSD 880-70713/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70713
880-37779-61 MS	SW-11 (2.0')	Soluble	Solid	300.0	70713
880-37779-61 MSD	SW-11 (2.0')	Soluble	Solid	300.0	70713

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (1.5')**Lab Sample ID: 880-37779-1****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 15:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 10:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 15:41	CH	EET MID

Client Sample ID: CS-2 (1.5')**Lab Sample ID: 880-37779-2****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 16:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 16:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 11:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 11:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 15:56	CH	EET MID

Client Sample ID: CS-3 (1.5')**Lab Sample ID: 880-37779-3****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 16:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 16:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 12:01	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 16:01	CH	EET MID

Client Sample ID: CS-4 (1.5')**Lab Sample ID: 880-37779-4****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 17:12	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-4 (1.5')**Date Collected: 01/09/24 00:00****Date Received: 01/10/24 14:55****Lab Sample ID: 880-37779-4****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			70643	01/11/24 12:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 12:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 16:06	CH	EET MID

Client Sample ID: CS-5 (1.5')**Date Collected: 01/09/24 00:00****Date Received: 01/10/24 14:55****Lab Sample ID: 880-37779-5****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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 17:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 17:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 12:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 12:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 16:11	CH	EET MID

Client Sample ID: CS-6 (1.5')**Date Collected: 01/09/24 00:00****Date Received: 01/10/24 14:55****Lab Sample ID: 880-37779-6****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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 18:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 13:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 13:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 16:27	CH	EET MID

Client Sample ID: CS-7 (1.5')**Date Collected: 01/09/24 00:00****Date Received: 01/10/24 14:55****Lab Sample ID: 880-37779-7****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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 18:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 13:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 13:28	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (1.5')**Date Collected: 01/09/24 00:00****Date Received: 01/10/24 14:55****Lab Sample ID: 880-37779-7****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			5.04 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 16:54	CH	EET MID

Client Sample ID: CS-8 (1.5')**Date Collected: 01/09/24 00:00****Date Received: 01/10/24 14:55****Lab Sample ID: 880-37779-8****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			4.98 g	5 mL	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 18:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 13:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 13:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 16:59	CH	EET MID

Client Sample ID: CS-9 (1.5')**Date Collected: 01/09/24 00:00****Date Received: 01/10/24 14:55****Lab Sample ID: 880-37779-9****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 14:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 14:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 17:05	CH	EET MID

Client Sample ID: CS-10 (1.5')**Date Collected: 01/09/24 00:00****Date Received: 01/10/24 14:55****Lab Sample ID: 880-37779-10****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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 19:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 19:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 14:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 14:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 17:10	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-11 (1.5')**Lab Sample ID: 880-37779-11****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 21:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 21:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 16:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 16:57	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 17:15	CH	EET MID

Client Sample ID: CS-12 (1.5')**Lab Sample ID: 880-37779-12****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 22:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 22:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 17:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 17:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 17:30	CH	EET MID

Client Sample ID: CS-13 (2.0')**Lab Sample ID: 880-37779-13****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 22:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 22:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 17:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 17:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 17:35	CH	EET MID

Client Sample ID: CS-14 (2.0')**Lab Sample ID: 880-37779-14****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 22:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 22:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-14 (2.0')

Lab Sample ID: 880-37779-14

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			70643	01/11/24 18:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 18:02	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 17:51	CH	EET MID

Client Sample ID: CS-15 (2.0')

Lab Sample ID: 880-37779-15

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 23:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 23:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 18:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 18:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 17:56	CH	EET MID

Client Sample ID: CS-16 (2.0')

Lab Sample ID: 880-37779-16

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/12/24 23:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/12/24 23:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 18:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 18:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 18:02	CH	EET MID

Client Sample ID: CS-17 (2.0')

Lab Sample ID: 880-37779-17

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 00:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 00:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 19:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 19:08	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-17 (2.0')**Lab Sample ID: 880-37779-17****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 18:07	CH	EET MID

Client Sample ID: CS-18 (2.0')**Lab Sample ID: 880-37779-18****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 00:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 00:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 19:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 19:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 18:12	CH	EET MID

Client Sample ID: CS-19 (2.0')**Lab Sample ID: 880-37779-19****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 01:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 19:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 19:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 18:17	CH	EET MID

Client Sample ID: CS-20 (2.0')**Lab Sample ID: 880-37779-20****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70589	01/10/24 15:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 01:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 01:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 20:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70610	01/10/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/11/24 20:13	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70592	01/10/24 15:47	SA	EET MID
Soluble	Analysis	300.0		1			70632	01/11/24 18:22	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-21 (2.0')

Lab Sample ID: 880-37779-21

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 05:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 05:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 10:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 19:03	CH	EET MID

Client Sample ID: CS-22 (2.0')

Lab Sample ID: 880-37779-22

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 05:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 05:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 11:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 11:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 19:19	CH	EET MID

Client Sample ID: CS-23 (2.0')

Lab Sample ID: 880-37779-23

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 06:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 06:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 12:01	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 19:24	CH	EET MID

Client Sample ID: CS-24 (2.0')

Lab Sample ID: 880-37779-24

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 06:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 06:41	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-24 (2.0')**Lab Sample ID: 880-37779-24****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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			70643	01/11/24 12:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 12:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 19:29	CH	EET MID

Client Sample ID: CS-25 (2.0')**Lab Sample ID: 880-37779-25****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 07:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 07:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 12:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 12:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 19:34	CH	EET MID

Client Sample ID: CS-26 (2.0')**Lab Sample ID: 880-37779-26****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 07:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 07:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 13:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 13:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 19:49	CH	EET MID

Client Sample ID: CS-27 (2.0')**Lab Sample ID: 880-37779-27****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 08:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 08:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 13:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 13:28	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-27 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-27
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			5.04 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 19:55	CH	EET MID

Client Sample ID: CS-28 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-28
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			4.98 g	5 mL	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 08:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 08:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 13:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 13:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 20:00	CH	EET MID

Client Sample ID: CS-29 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-29
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			5.02 g	5 mL	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 08:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 08:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 14:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 14:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 20:05	CH	EET MID

Client Sample ID: CS-30 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-30
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			5.03 g	5 mL	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 09:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 09:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 14:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 14:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 20:10	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-31 (2.0')**Lab Sample ID: 880-37779-31****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 11:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 11:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 16:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 16:57	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 20:15	CH	EET MID

Client Sample ID: CS-32 (2.0')**Lab Sample ID: 880-37779-32****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 11:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 11:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 17:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 17:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 20:31	CH	EET MID

Client Sample ID: CS-33 (2.0')**Lab Sample ID: 880-37779-33****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 12:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 17:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 17:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 20:36	CH	EET MID

Client Sample ID: CS-34 (2.0')**Lab Sample ID: 880-37779-34****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 12:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 12:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-34 (2.0')**Lab Sample ID: 880-37779-34****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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			70643	01/11/24 18:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 18:02	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 20:51	CH	EET MID

Client Sample ID: CS-35 (2.0')**Lab Sample ID: 880-37779-35****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 12:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 12:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 18:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 18:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 20:56	CH	EET MID

Client Sample ID: CS-36 (2.0')**Lab Sample ID: 880-37779-36****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 13:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 18:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 18:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 21:01	CH	EET MID

Client Sample ID: CS-37 (2.0')**Lab Sample ID: 880-37779-37****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 13:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 19:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 19:08	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-37 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-37
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 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 21:06	CH	EET MID

Client Sample ID: CS-38 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-38
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			4.98 g	5 mL	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 14:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 19:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 19:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 21:12	CH	EET MID

Client Sample ID: CS-39 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 19:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 19:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 21:17	CH	EET MID

Client Sample ID: CS-40 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-40
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	70591	01/10/24 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 15:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 20:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	70611	01/10/24 16:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 20:13	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70605	01/10/24 16:05	SA	EET MID
Soluble	Analysis	300.0		1			70633	01/11/24 21:22	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-41 (2.0')**Lab Sample ID: 880-37779-41****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 19:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 10:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 15:53	CH	EET MID

Client Sample ID: CS-42 (2.0')**Lab Sample ID: 880-37779-42****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 20:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 20:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 11:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 16:13	CH	EET MID

Client Sample ID: CS-43 (2.0')**Lab Sample ID: 880-37779-43****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 20:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 20:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 12:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 12:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 16:20	CH	EET MID

Client Sample ID: CS-44 (2.0')**Lab Sample ID: 880-37779-44****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 20:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 20:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-44 (2.0')

Lab Sample ID: 880-37779-44

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			70643	01/11/24 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 12:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 16:27	CH	EET MID

Client Sample ID: CS-45 (2.0')

Lab Sample ID: 880-37779-45

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 21:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 21:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 13:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 13:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 16:34	CH	EET MID

Client Sample ID: CS-46 (2.0')

Lab Sample ID: 880-37779-46

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 21:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 21:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 13:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 13:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 16:54	CH	EET MID

Client Sample ID: CS-47 (2.0')

Lab Sample ID: 880-37779-47

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 22:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 22:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 13:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 13:49	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: CS-47 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-47
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			5.04 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 17:01	CH	EET MID

Client Sample ID: CS-48 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-48
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			4.98 g	5 mL	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 22:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 22:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 14:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 14:11	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 17:08	CH	EET MID

Client Sample ID: CS-49 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-49
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			5.02 g	5 mL	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 23:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 23:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 14:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 14:33	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 17:15	CH	EET MID

Client Sample ID: CS-50 (2.0')
Date Collected: 01/09/24 00:00
Date Received: 01/10/24 14:55

Lab Sample ID: 880-37779-50
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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/13/24 23:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/13/24 23:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 14:54	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 17:22	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-1 (1.5')**Lab Sample ID: 880-37779-51****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/14/24 01:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/14/24 01:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 15:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 15:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 17:29	CH	EET MID

Client Sample ID: SW-2 (1.5')**Lab Sample ID: 880-37779-52****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/14/24 01:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/14/24 01:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 16:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 16:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 17:49	CH	EET MID

Client Sample ID: SW-3 (1.5')**Lab Sample ID: 880-37779-53****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/14/24 02:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/14/24 02:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 16:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 16:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 17:56	CH	EET MID

Client Sample ID: SW-4 (0.5')**Lab Sample ID: 880-37779-54****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/14/24 02:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/14/24 02:36	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-4 (0.5')**Lab Sample ID: 880-37779-54****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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			70643	01/11/24 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 17:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 18:16	CH	EET MID

Client Sample ID: SW-5 (2.0')**Lab Sample ID: 880-37779-55****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/14/24 03:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/14/24 03:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 17:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 17:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 18:23	CH	EET MID

Client Sample ID: SW-6 (2.0')**Lab Sample ID: 880-37779-56****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/14/24 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/14/24 03:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 17:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 17:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 18:30	CH	EET MID

Client Sample ID: SW-7 (2.0')**Lab Sample ID: 880-37779-57****Date Collected: 01/09/24 00:00****Matrix: Solid****Date Received: 01/10/24 14:55**

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/14/24 03:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/14/24 03:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 18:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 18:14	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-7 (2.0')

Lab Sample ID: 880-37779-57

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70635	01/11/24 18:37	CH	EET MID

Client Sample ID: SW-8 (2.0')

Lab Sample ID: 880-37779-58

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/14/24 04:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/14/24 04:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 18:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 18:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70612	01/10/24 17:01	SA	EET MID
Soluble	Analysis	300.0		1			70696	01/11/24 22:03	CH	EET MID

Client Sample ID: SW-9 (2.0')

Lab Sample ID: 880-37779-59

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/14/24 04:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/14/24 04:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 18:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 18:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70696	01/11/24 22:19	CH	EET MID

Client Sample ID: SW-10 (2.0')

Lab Sample ID: 880-37779-60

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70594	01/10/24 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70755	01/14/24 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/14/24 05:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 19:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70613	01/10/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70623	01/11/24 19:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70608	01/10/24 16:39	SA	EET MID
Soluble	Analysis	300.0		1			70696	01/11/24 22:24	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-11 (2.0')

Lab Sample ID: 880-37779-61

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70596	01/10/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70627	01/11/24 12:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/11/24 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/12/24 20:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70723	01/12/24 09:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 20:24	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70713	01/12/24 07:58	CH	EET MID
Soluble	Analysis	300.0		1			70727	01/12/24 10:28	CH	EET MID

Client Sample ID: SW-12 (2.0')

Lab Sample ID: 880-37779-62

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70596	01/10/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70627	01/11/24 13:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/11/24 13:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/12/24 21:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70723	01/12/24 09:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 21:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70713	01/12/24 07:58	CH	EET MID
Soluble	Analysis	300.0		1			70727	01/12/24 10:43	CH	EET MID

Client Sample ID: SW-13 (2.0')

Lab Sample ID: 880-37779-63

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70596	01/10/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70627	01/11/24 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/11/24 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/12/24 21:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70723	01/12/24 09:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 21:48	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70713	01/12/24 07:58	CH	EET MID
Soluble	Analysis	300.0		1			70727	01/12/24 10:48	CH	EET MID

Client Sample ID: SW-14 (2.0')

Lab Sample ID: 880-37779-64

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70596	01/10/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70627	01/11/24 13:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/11/24 13:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Client Sample ID: SW-14 (2.0')

Lab Sample ID: 880-37779-64

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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			70643	01/12/24 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70723	01/12/24 09:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70705	01/12/24 22:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70612	01/10/24 17:01	SA	EET MID
Soluble	Analysis	300.0		1			70696	01/11/24 22:29	CH	EET MID

Client Sample ID: SW-15 (2.0')

Lab Sample ID: 880-37779-65

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70596	01/10/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70627	01/11/24 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/11/24 14:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 04:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/11/24 04:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70612	01/10/24 17:01	SA	EET MID
Soluble	Analysis	300.0		1			70696	01/11/24 22:34	CH	EET MID

Client Sample ID: SW-16 (2.0')

Lab Sample ID: 880-37779-66

Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/10/24 14:55

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	70596	01/10/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70627	01/11/24 14:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70762	01/11/24 14:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			70643	01/11/24 04:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/11/24 04:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70612	01/10/24 17:01	SA	EET MID
Soluble	Analysis	300.0		1			70696	01/11/24 22:49	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37779-1	CS-1 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-2	CS-2 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-3	CS-3 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-4	CS-4 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-5	CS-5 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-6	CS-6 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-7	CS-7 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-8	CS-8 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-9	CS-9 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-10	CS-10 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-11	CS-11 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-12	CS-12 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-13	CS-13 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-14	CS-14 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-15	CS-15 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-16	CS-16 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-17	CS-17 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-18	CS-18 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-19	CS-19 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-20	CS-20 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-21	CS-21 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-22	CS-22 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-23	CS-23 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-24	CS-24 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-25	CS-25 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-26	CS-26 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-27	CS-27 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-28	CS-28 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-29	CS-29 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-30	CS-30 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-31	CS-31 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-32	CS-32 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-33	CS-33 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-34	CS-34 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-35	CS-35 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-36	CS-36 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-37	CS-37 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-38	CS-38 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-39	CS-39 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-40	CS-40 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-41	CS-41 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-42	CS-42 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-43	CS-43 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-44	CS-44 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-45	CS-45 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-46	CS-46 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-47	CS-47 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-48	CS-48 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-49	CS-49 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-50	CS-50 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-51	SW-1 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-52	SW-2 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-53	SW-3 (1.5')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-54	SW-4 (0.5')	Solid	01/09/24 00:00	01/10/24 14:55

Sample Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-37779-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37779-55	SW-5 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-56	SW-6 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-57	SW-7 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-58	SW-8 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-59	SW-9 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-60	SW-10 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-61	SW-11 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-62	SW-12 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-63	SW-13 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-64	SW-14 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-65	SW-15 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55
880-37779-66	SW-16 (2.0')	Solid	01/09/24 00:00	01/10/24 14:55



880-37779 Chain of Custody

Page 1 of 7

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil.com

Work Order Comments	
Program	UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ perfund ☐
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables	EDD ☐ ADaPT ☐ Other

Project Name		Raptor West 3 State #2H		Turn Around		ANALYSIS REQUEST																Preservative Codes													
Project Number		2154		☐ Routine ☒ Rush		Pres. Code																		None NO DI Water H ₂ O											
Project Location		Lea County New Mexico		Due Date		72 Hour																				Cool Cool MeOH Me									
Sampler's Name		CCM																								HCL HC HNO ₃ HN									
PO #:																										H ₂ SO ₄ H ₂ NaOH Na									
SAMPLE RECEIPT		Temp Blank.		Yes No		Wet Ice.		Yes No		Parameters		BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 300 0																H ₃ PO ₄ HP							
Received Intact:		Yes No		Thermometer ID		F. 20		Cooler Custody Seals																				Yes No N/A		Correction Factor		NaHSO ₄ NABIS			
Sample Custody Seals		Yes No N/A		Temperature Reading		-2.3		Total Containers																						Corrected Temperature		-2.5		Na ₂ S ₂ O ₃ NaSO ₃	
																																Zn Acetate+NaOH Zn			
																																NaOH+Ascorbic Acid SAPC			
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont																		Sample Comments					
CS-1 (1 5')		1/9/2024				X				Comp		1		X X X																					
CS-2 (1 5')		1/9/2024				X				Comp		1		X X X																					
CS-3 (1 5')		1/9/2024				X				Comp		1		X X X																					
CS-4 (1 5')		1/9/2024				X				Comp		1		X X X																					
CS-5 (1 5')		1/9/2024				X				Comp		1		X X X																					
CS-6 (1 5')		1/9/2024				X				Comp		1		X X X																					
CS-7 (1 5')		1/9/2024				X				Comp		1		X X X																					
CS-8 (1 5')		1/9/2024				X				Comp		1		X X X																					
CS-9 (1 5')		1/9/2024				X				Comp		1		X X X																					
CS-10 (1 5')		1/9/2024				X				Comp		1		X X X																					

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com			
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Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
		1-10-24 1455					



C O S C I

Work Order No: 3779

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Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City State ZIP	Midland TX 79701	City State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil.com

Work Order Comments			
Program	UST/PST	PRP	rownfields
State of Project:	RC	perfund	
Reporting Level II	Level III	ST/UST	RRP
Level IV			
Deliverables	EDD	ADaPT	Other

Project Name		Raptor West 3 State #2H		Turn Around		ANALYSIS REQUEST																Preservative Codes									
Project Number		2154		☐ Routine ☒ Rush																		None NO DI Water H ₂ O									
Project Location		Lea County New Mexico		Due Date		72 Hour																		Cool Cool MeOH Me							
Sampler's Name		CCM																				HCL HC HNO ₃ HN									
PO #:																						H ₂ SO ₄ H ₂ NaOH Na									
SAMPLE RECEIPT		Temp Blank		Yes No		Wet Ice		Yes No																		H ₃ PO ₄ HP					
Received Intact:		Yes No		Thermometer ID																				NaHSO ₄ NABIS							
Cooler Custody Seals		Yes No N/A		Correction Factor																				Na ₂ S ₂ O ₃ NaSO ₃							
Sample Custody Seals.		Yes No N/A		Temperature Reading																				Zn Acetate+NaOH Zn							
Total Containers				Corrected Temperature																				NaOH+Ascorbic Acid SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont																		Sample Comments	
CS-11 (1 5')		1/9/2024				X				Comp		1		X X X																	
CS-12 (1 5')		1/9/2024				X				Comp		1		X X X																	
CS-13 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-14 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-15 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-16 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-17 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-18 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-19 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-20 (2 0')		1/9/2024				X				Comp		1		X X X																	

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-10-2024 1455		

Work Order No: 37779

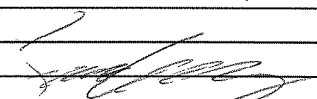
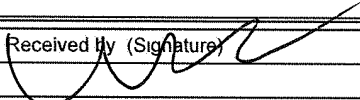
Page 3 of 7

Project Manager		Clinton Merritt		Bill to (if different)		Isaac Castro	
Company Name		Carmona Resources		Company Name		Marathon Oil Corporation	
Address		310 W Wall St Ste 500		Address		990 Town and Country Blvd	
City State ZIP		Midland, TX 79701		City State ZIP		Houston TX 77024	
Phone				Email		icastro@marathonoil.com	

Project Name		Raptor West 3 State #2H		Turn Around				ANALYSIS REQUEST												Preservative Codes			
Project Number		2154		☐ Routine ☒ Rush		Pres. Code														None NO DI Water H ₂ O			
Project Location		Lea County New Mexico		Due Date		72 Hour														Cool Cool MeOH Me			
Sampler's Name		CCM																		HCL HC HNO ₃ HN			
PO #:																				H ₂ SO ₄ H ₂ NaOH Na			
SAMPLE RECEIPT		Temp Blank		Yes No		Wet Ice		Yes No														H ₃ PO ₄ HP	
Received Intact:		Yes No		Thermometer ID																NaHSO ₄ NABIS			
Cooler Custody Seals		Yes No N/A		Correction Factor																Na ₂ S ₂ O ₅ NaSO ₃			
Sample Custody Seals		Yes No N/A		Temperature Reading																Zn Acetate+NaOH Zn			
Total Containers				Corrected Temperature																NaOH+Ascorbic Acid SAPC			

Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
CS-21 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-22 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-23 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-24 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-25 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-26 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-27 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-28 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-29 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-30 (2 0')		1/9/2024				X				Comp		1		X X X													

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
		1-10-24 1455					



Work Order No: 37779

Page 4 of 7

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil.com

Work Order Comments			
Program. UST/PST	☐ PRP	☐ Brownfields	☐ RC
perfund	☐		
State of Project:			
Reporting Level II	☐ Level III	☐ ST/UST	☐ RRP
Level IV	☐		
Deliverables EDD	☐	ADaPT	☐
Other:			

Project Name		Raptor West 3 State #2H		Turn Around		ANALYSIS REQUEST																Preservative Codes									
Project Number		2154		☐ Routine ☒ Rush		Pres. Code																		None NO DI Water H ₂ O							
Project Location		Lea County New Mexico		Due Date		72 Hour																				Cool Cool MeOH Me					
Sampler's Name		CCM																								HCL HC HNO ₃ HN					
PO #:																										H ₂ SO ₄ H ₂ NaOH Na					
SAMPLE RECEIPT		Temp Blank.		Yes No		Wet Ice		Yes No																				H PO ₄ HP			
Received Intact:		Yes No		Thermometer ID																								NaHSO ₄ NABIS			
Cooler Custody Seals		Yes No N/A		Correction Factor																								Na ₂ S ₂ O ₃ NaSO ₃			
Sample Custody Seals		Yes No N/A		Temperature Reading																								Zn Acetate+NaOH Zn			
Total Containers				Corrected Temperature																								NaOH+Ascorbic Acid SAPC			
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont																		Sample Comments	
CS-31 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-32 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-33 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-34 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-35 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-36 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-37 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-38 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-39 (2 0')		1/9/2024				X				Comp		1		X X X																	
CS-40 (2 0')		1/9/2024				X				Comp		1		X X X																	

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-10-24 1458		



Work Order No: 37779

Page 5 of 7

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil.com

Work Order Comments			
Program	UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ perfund ☐		
State of Project:			
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐			
Deliverables	EDD ☐ ADaPT ☐ Other		

Project Name		Raptor West 3 State #2H		Turn Around				ANALYSIS REQUEST												Preservative Codes							
Project Number		2154		☐ Routine ☒ Rush		Pres. Code														None NO DI Water H ₂ O							
Project Location		Lea County New Mexico		Due Date		72 Hour														Cool Cool MeOH Me							
Sampler's Name		CCM																		HCL HC HNO ₃ HN							
PO #:																				H ₂ SO ₄ H ₂ NaOH Na							
SAMPLE RECEIPT		Temp Blank		Yes No		Wet Ice		Yes No														H ₃ PO ₄ HP					
Received Intact:		Yes No		Thermometer ID																NaHSO ₄ NABIS							
Cooler Custody Seals		Yes No N/A		Correction Factor																Na ₂ S ₂ O ₃ NaSO ₃							
Sample Custody Seals		Yes No N/A		Temperature Reading																Zn Acetate+NaOH Zn							
Total Containers				Corrected Temperature																NaOH+Ascorbic Acid SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/ Comp		# of Cont														Sample Comments	
CS-41 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-42 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-43 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-44 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-45 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-46 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-47 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-48 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-49 (2 0')		1/9/2024				X				Comp		1		X X X													
CS-50 (2 0')		1/9/2024				X				Comp		1		X X X													

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com			
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Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
		1/10/24 1455					

C C S I

Work Order No: 37779

Page 6 of 7

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil.com

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ perfund ☐

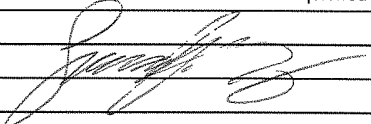
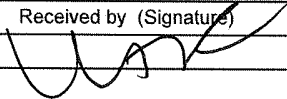
State of Project:

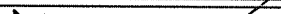
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	Raptor West 3 State #2H		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number	2154		☐ Routine ☒ Rush			Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0																	None NO	DI Water H ₂ O
Project Location	Lea County, New Mexico		Due Date	72 Hour																						Cool Cool	MeOH Me
Sampler's Name	CCM																									HCL HC	HNO ₃ HN
PO #:																										H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT			Temp Blank	Yes No	Wet Ice	Yes No																	H ₃ PO ₄ HP				
Received Intact:			Yes No	Thermometer ID																		NaHSO ₄ NABIS					
Cooler Custody Seals			Yes No N/A	Correction Factor																		Na ₂ S ₂ O NaSO ₃					
Sample Custody Seals			Yes No N/A	Temperature Reading																		Zn Acetate+NaOH Zn					
Total Containers			Corrected Temperature																		NaOH+Ascorbic Acid SAPC						
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments			
SW-1 (1 5')		1/9/2024		X		Comp	1	X	X	X																	
SW-2 (1 5')		1/9/2024		X		Comp	1	X	X	X																	
SW-3 (1 5')		1/9/2024		X		Comp	1	X	X	X																	
SW-4 (0 5')		1/9/2024		X		Comp	1	X	X	X																	
SW-5 (2 0')		1/9/2024		X		Comp	1	X	X	X																	
SW-6 (2 0')		1/9/2024		X		Comp	1	X	X	X																	
SW-7 (2 0')		1/9/2024		X		Comp	1	X	X	X																	
SW-8 (2 0')		1/9/2024		X		Comp	1	X	X	X																	
SW-9 (2 0')		1/9/2024		X		Comp	1	X	X	X																	
SW-10 (2 0')		1/9/2024		X		Comp	1	X	X	X																	

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-10-24 1455		

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-10-24 1455		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-37779-1

SDG Number: Lea County, New Mexico

Login Number: 37779

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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.	N/A	
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

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 1/23/2024 12:58:07 PM

JOB DESCRIPTION

Raptor West 3 State #2H
Lea County, New Mexico

JOB NUMBER

880-38210-1

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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Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-38210-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

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
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.
α	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: Raptor West 3 State #2H

Job ID: 880-38210-1

Job ID: 880-38210-1

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Job Narrative 880-38210-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 1/19/2024 4:44 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 -3.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-35 (2.25') (880-38210-1), CS-36 (2.25') (880-38210-2), CS-37 (2.25') (880-38210-3), CS-38 (2.25') (880-38210-4), CS-39 (2.25') (880-38210-5), CS-48 (2.25') (880-38210-6) and CS-50 (2.25') (880-38210-7).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-36 (2.25') (880-38210-2), CS-37 (2.25') (880-38210-3), CS-38 (2.25') (880-38210-4), CS-39 (2.25') (880-38210-5), CS-48 (2.25') (880-38210-6), CS-50 (2.25') (880-38210-7), (LCS 880-71336/1-A), (LCSD 880-71336/2-A), (880-38210-A-1-C MS) and (880-38210-A-1-D MSD). 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 880-71336 and analytical batch 880-71299 was outside the upper control limits.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-71336 and analytical batch 880-71299 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-71307/2-A). 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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Client Sample ID: CS-35 (2.25')

Lab Sample ID: 880-38210-1

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/19/24 16:44

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		01/22/24 13:42	01/23/24 02:24	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		01/22/24 13:42	01/23/24 02:24	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		01/22/24 13:42	01/23/24 02:24	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		01/22/24 13:42	01/23/24 02:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/22/24 13:42	01/23/24 02:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/22/24 13:42	01/23/24 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/22/24 13:42	01/23/24 02:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/22/24 13:42	01/23/24 02:24	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			01/23/24 02:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/22/24 14:27	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		01/22/24 09:16	01/22/24 14:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/22/24 09:16	01/22/24 14:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/22/24 09:16	01/22/24 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	01/22/24 09:16	01/22/24 14:27	1
o-Terphenyl	87		70 - 130	01/22/24 09:16	01/22/24 14:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.50		5.01		mg/Kg			01/20/24 23:37	1

Client Sample ID: CS-36 (2.25')

Lab Sample ID: 880-38210-2

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/19/24 16:44

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		01/22/24 13:42	01/23/24 02:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/22/24 13:42	01/23/24 02:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/22/24 13:42	01/23/24 02:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/22/24 13:42	01/23/24 02:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/22/24 13:42	01/23/24 02:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/22/24 13:42	01/23/24 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	183	S1+	70 - 130	01/22/24 13:42	01/23/24 02:50	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/22/24 13:42	01/23/24 02:50	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Client Sample ID: CS-36 (2.25')

Lab Sample ID: 880-38210-2

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/19/24 16:44

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			01/23/24 02:50	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			01/22/24 14:50	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		01/22/24 09:16	01/22/24 14:50	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/22/24 09:16	01/22/24 14:50	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/22/24 09:16	01/22/24 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				01/22/24 09:16	01/22/24 14:50	1
o-Terphenyl	88		70 - 130				01/22/24 09:16	01/22/24 14:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.92		5.05		mg/Kg			01/20/24 23:53	1

Client Sample ID: CS-37 (2.25')

Lab Sample ID: 880-38210-3

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/19/24 16:44

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		01/22/24 13:42	01/23/24 03:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/22/24 13:42	01/23/24 03:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/22/24 13:42	01/23/24 03:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/22/24 13:42	01/23/24 03:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/22/24 13:42	01/23/24 03:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/22/24 13:42	01/23/24 03:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130				01/22/24 13:42	01/23/24 03:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/22/24 13:42	01/23/24 03:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/23/24 03:16	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			01/22/24 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/22/24 09:16	01/22/24 15:13	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/22/24 09:16	01/22/24 15:13	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Client Sample ID: CS-37 (2.25')
Date Collected: 01/18/24 00:00
Date Received: 01/19/24 16:44

Lab Sample ID: 880-38210-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/22/24 09:16	01/22/24 15:13	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	78		70 - 130				01/22/24 09:16	01/22/24 15:13	1	
o-Terphenyl	80		70 - 130				01/22/24 09:16	01/22/24 15:13	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	11.8		5.04		mg/Kg			01/20/24 23:58	1	

Client Sample ID: CS-38 (2.25')
Date Collected: 01/18/24 00:00
Date Received: 01/19/24 16:44

Lab Sample ID: 880-38210-4
Matrix: Solid

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		01/22/24 13:42	01/23/24 03:42	1	
Toluene	<0.00199	U	0.00199		mg/Kg		01/22/24 13:42	01/23/24 03:42	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/22/24 13:42	01/23/24 03:42	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/22/24 13:42	01/23/24 03:42	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/22/24 13:42	01/23/24 03:42	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/22/24 13:42	01/23/24 03:42	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	187	S1+	70 - 130				01/22/24 13:42	01/23/24 03:42	1	
1,4-Difluorobenzene (Surr)	126		70 - 130				01/22/24 13:42	01/23/24 03:42	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			01/23/24 03:42	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5		mg/Kg			01/22/24 15:36	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	<50.5	U	50.5		mg/Kg		01/22/24 09:16	01/22/24 15:36	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/22/24 09:16	01/22/24 15:36	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/22/24 09:16	01/22/24 15:36	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	70		70 - 130				01/22/24 09:16	01/22/24 15:36	1	
o-Terphenyl	71		70 - 130				01/22/24 09:16	01/22/24 15:36	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	8.06		4.98		mg/Kg			01/21/24 00:03	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Client Sample ID: CS-39 (2.25')
Date Collected: 01/18/24 00:00
Date Received: 01/19/24 16:44

Lab Sample ID: 880-38210-5
Matrix: Solid

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		01/22/24 13:42	01/23/24 04:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/22/24 13:42	01/23/24 04:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/22/24 13:42	01/23/24 04:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/22/24 13:42	01/23/24 04:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/22/24 13:42	01/23/24 04:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/22/24 13:42	01/23/24 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130				01/22/24 13:42	01/23/24 04:08	1
1,4-Difluorobenzene (Surr)	112		70 - 130				01/22/24 13:42	01/23/24 04:08	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			01/23/24 04:08	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			01/22/24 15:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/22/24 09:16	01/22/24 15:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/22/24 09:16	01/22/24 15:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/22/24 09:16	01/22/24 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				01/22/24 09:16	01/22/24 15:59	1
o-Terphenyl	80		70 - 130				01/22/24 09:16	01/22/24 15:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.14		4.97		mg/Kg			01/21/24 00:08	1

Client Sample ID: CS-48 (2.25')
Date Collected: 01/18/24 00:00
Date Received: 01/19/24 16:44

Lab Sample ID: 880-38210-6
Matrix: Solid

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		01/22/24 13:42	01/23/24 04:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/22/24 13:42	01/23/24 04:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/22/24 13:42	01/23/24 04:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/22/24 13:42	01/23/24 04:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/22/24 13:42	01/23/24 04:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/22/24 13:42	01/23/24 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130				01/22/24 13:42	01/23/24 04:35	1
1,4-Difluorobenzene (Surr)	124		70 - 130				01/22/24 13:42	01/23/24 04:35	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Client Sample ID: CS-48 (2.25')

Lab Sample ID: 880-38210-6

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/19/24 16:44

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			01/23/24 04:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/22/24 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/22/24 09:16	01/22/24 16:22	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/22/24 09:16	01/22/24 16:22	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/22/24 09:16	01/22/24 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/22/24 09:16	01/22/24 16:22	1
o-Terphenyl	71		70 - 130				01/22/24 09:16	01/22/24 16:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.43		4.96		mg/Kg			01/21/24 00:13	1

Client Sample ID: CS-50 (2.25')

Lab Sample ID: 880-38210-7

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/19/24 16:44

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		01/22/24 13:42	01/23/24 05:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/22/24 13:42	01/23/24 05:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/22/24 13:42	01/23/24 05:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/22/24 13:42	01/23/24 05:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/22/24 13:42	01/23/24 05:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/22/24 13:42	01/23/24 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130				01/22/24 13:42	01/23/24 05:01	1
1,4-Difluorobenzene (Surr)	126		70 - 130				01/22/24 13:42	01/23/24 05:01	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			01/23/24 05:01	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			01/22/24 16:44	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	<50.4	U	50.4		mg/Kg		01/22/24 09:16	01/22/24 16:44	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/22/24 09:16	01/22/24 16:44	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Client Sample ID: CS-50 (2.25')
Date Collected: 01/18/24 00:00
Date Received: 01/19/24 16:44

Lab Sample ID: 880-38210-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/22/24 09:16	01/22/24 16:44	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	73		70 - 130				01/22/24 09:16	01/22/24 16:44	1	
o-Terphenyl	71		70 - 130				01/22/24 09:16	01/22/24 16:44	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6.67		5.03		mg/Kg			01/21/24 00:18	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

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)
880-38210-1	CS-35 (2.25')	112	94
880-38210-1 MS	CS-35 (2.25')	151 S1+	98
880-38210-1 MSD	CS-35 (2.25')	175 S1+	124
880-38210-2	CS-36 (2.25')	183 S1+	107
880-38210-3	CS-37 (2.25')	155 S1+	96
880-38210-4	CS-38 (2.25')	187 S1+	126
880-38210-5	CS-39 (2.25')	170 S1+	112
880-38210-6	CS-48 (2.25')	168 S1+	124
880-38210-7	CS-50 (2.25')	169 S1+	126
LCS 880-71336/1-A	Lab Control Sample	174 S1+	121
LCSD 880-71336/2-A	Lab Control Sample Dup	169 S1+	75
MB 880-71305/5-A	Method Blank	116	115
MB 880-71336/5-A	Method Blank	143 S1+	121
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38206-A-81-H MS	Matrix Spike	75	70
880-38206-A-81-I MSD	Matrix Spike Duplicate	79	72
880-38210-1	CS-35 (2.25')	86	87
880-38210-2	CS-36 (2.25')	86	88
880-38210-3	CS-37 (2.25')	78	80
880-38210-4	CS-38 (2.25')	70	71
880-38210-5	CS-39 (2.25')	80	80
880-38210-6	CS-48 (2.25')	71	71
880-38210-7	CS-50 (2.25')	73	71
LCS 880-71307/2-A	Lab Control Sample	109	135 S1+
LCSD 880-71307/3-A	Lab Control Sample Dup	96	117
MB 880-71307/1-A - RA2	Method Blank	82	85
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71305/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 71299							Prep Batch: 71305		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/22/24 09:02	01/22/24 12:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/22/24 09:02	01/22/24 12:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/22/24 09:02	01/22/24 12:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/22/24 09:02	01/22/24 12:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/22/24 09:02	01/22/24 12:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/22/24 09:02	01/22/24 12:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/22/24 09:02	01/22/24 12:15	1
1,4-Difluorobenzene (Surr)	115		70 - 130				01/22/24 09:02	01/22/24 12:15	1

Lab Sample ID: MB 880-71336/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 71299							Prep Batch: 71336		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/22/24 13:42	01/23/24 01:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/22/24 13:42	01/23/24 01:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/22/24 13:42	01/23/24 01:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/22/24 13:42	01/23/24 01:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/22/24 13:42	01/23/24 01:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/22/24 13:42	01/23/24 01:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				01/22/24 13:42	01/23/24 01:58	1
1,4-Difluorobenzene (Surr)	121		70 - 130				01/22/24 13:42	01/23/24 01:58	1

Lab Sample ID: LCS 880-71336/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 71299							Prep Batch: 71336		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1061		mg/Kg		106	70 - 130		
Toluene	0.100	0.09501		mg/Kg		95	70 - 130		
Ethylbenzene	0.100	0.1050		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene	0.200	0.2077		mg/Kg		104	70 - 130		
o-Xylene	0.100	0.1138		mg/Kg		114	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130						
1,4-Difluorobenzene (Surr)	121		70 - 130						

Lab Sample ID: LCSD 880-71336/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 71299							Prep Batch: 71336		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1132		mg/Kg		113	70 - 130	6	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-71336/2-A
Matrix: Solid
Analysis Batch: 71299

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71336

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added		Result	Qualifier				Limits	RPD	
Toluene	0.100		0.1087		mg/Kg		109	70 - 130	13	35
Ethylbenzene	0.100		0.09926		mg/Kg		99	70 - 130	6	35
m-Xylene & p-Xylene	0.200		0.2157		mg/Kg		108	70 - 130	4	35
o-Xylene	0.100		0.1063		mg/Kg		106	70 - 130	7	35
		LCSD	LCSD							
Surrogate		%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)		169	S1+	70 - 130						
1,4-Difluorobenzene (Surr)		75		70 - 130						

Lab Sample ID: 880-38210-1 MS
Matrix: Solid
Analysis Batch: 71299

Client Sample ID: CS-35 (2.25')
Prep Type: Total/NA
Prep Batch: 71336

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Benzene	<0.00199	U	0.0996	0.08474		mg/Kg		85	70 - 130	
Toluene	<0.00199	U F1	0.0996	0.06372	F1	mg/Kg		64	70 - 130	
Ethylbenzene	<0.00199	U F1	0.0996	0.06506	F1	mg/Kg		65	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1366	F1	mg/Kg		69	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.07829		mg/Kg		79	70 - 130	
		MS	MS							
Surrogate		%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)		151	S1+	70 - 130						
1,4-Difluorobenzene (Surr)		98		70 - 130						

Lab Sample ID: 880-38210-1 MSD
Matrix: Solid
Analysis Batch: 71299

Client Sample ID: CS-35 (2.25')
Prep Type: Total/NA
Prep Batch: 71336

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Benzene	<0.00199	U	0.0990	0.08716		mg/Kg		88	70 - 130	3	35
Toluene	<0.00199	U F1	0.0990	0.07564		mg/Kg		76	70 - 130	17	35
Ethylbenzene	<0.00199	U F1	0.0990	0.08443		mg/Kg		85	70 - 130	26	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1697		mg/Kg		86	70 - 130	22	35
o-Xylene	<0.00199	U	0.0990	0.09246		mg/Kg		93	70 - 130	17	35
		MSD	MSD								
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		175	S1+	70 - 130							
1,4-Difluorobenzene (Surr)		124		70 - 130							

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

Lab Sample ID: LCS 880-71307/2-A
Matrix: Solid
Analysis Batch: 71295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71307

Analyte	Spike		LCS		Unit	D	%Rec	%Rec	
	Added		Result	Qualifier				Limits	
Gasoline Range Organics (GRO)-C6-C10	1000		1034		mg/Kg		103	70 - 130	

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-71307/2-A

Matrix: Solid

Analysis Batch: 71295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71307

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Diesel Range Organics (Over C10-C28)	1000	1048		mg/Kg	-	105	70 - 130

	LCS	LCS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>1-Chlorooctane</i>	109		70 - 130
<i>o-Terphenyl</i>	135	S1+	70 - 130

Lab Sample ID: LCSD 880-71307/3-A

Matrix: Solid

Analysis Batch: 71295

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71307

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD Limit
							Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	954.6		mg/Kg		95	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	983.3		mg/Kg		98	70 - 130	6	20

	<i>LCSD</i>	<i>LCSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>1-Chlorooctane</i>	96		70 - 130
<i>o-Terphenyl</i>	117		70 - 130

Lab Sample ID: 880-38206-A-81-H MS

Matrix: Solid

Analysis Batch: 71295

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71307

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	998	735.7		mg/Kg		74	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	998	756.7		mg/Kg		76	70 - 130		

	MS	MS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>1-Chlorooctane</i>	75		70 - 130
<i>o-Terphenyl</i>	70		70 - 130

Lab Sample ID: 880-38206-A-81-I MSD

Matrix: Solid

Analysis Batch: 71295

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 71307

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	998	762.2		mg/Kg		76	70 - 130	4	20 - 120
Diesel Range Organics (Over C10-C28)	<49.7	U	998	853.4		mg/Kg		86	70 - 130	12	20 - 120

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
<i>o</i> -Terphenyl	72		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA2

Lab Sample ID: MB 880-71307/1-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 71295							Prep Batch: 71307		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA2	<50.0	U	50.0		mg/Kg		01/22/24 07:00	01/22/24 07:17	1
Diesel Range Organics (Over C10-C28) - RA2	<50.0	U	50.0		mg/Kg		01/22/24 07:00	01/22/24 07:17	1
Oil Range Organics (Over C28-C36) - RA2	<50.0	U	50.0		mg/Kg		01/22/24 07:00	01/22/24 07:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane - RA2	82		70 - 130				01/22/24 07:00	01/22/24 07:17	1
o-Terphenyl - RA2	85		70 - 130				01/22/24 07:00	01/22/24 07:17	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71248/1-A

Matrix: Solid

Analysis Batch: 71275

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/20/24 21:49	1

Lab Sample ID: LCS 880-71248/2-A

Matrix: Solid

Analysis Batch: 71275

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.5		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-71248/3-A

Matrix: Solid

Analysis Batch: 71275

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	252.1		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-38182-A-2-B MS

Matrix: Solid

Analysis Batch: 71275

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	444		249	689.3		mg/Kg		99	90 - 110

Lab Sample ID: 880-38182-A-2-C MSD

Matrix: Solid

Analysis Batch: 71275

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	444		249	683.1		mg/Kg		96	90 - 110	1	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 71299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38210-1	CS-35 (2.25')	Total/NA	Solid	8021B	71336
880-38210-2	CS-36 (2.25')	Total/NA	Solid	8021B	71336
880-38210-3	CS-37 (2.25')	Total/NA	Solid	8021B	71336
880-38210-4	CS-38 (2.25')	Total/NA	Solid	8021B	71336
880-38210-5	CS-39 (2.25')	Total/NA	Solid	8021B	71336
880-38210-6	CS-48 (2.25')	Total/NA	Solid	8021B	71336
880-38210-7	CS-50 (2.25')	Total/NA	Solid	8021B	71336
MB 880-71305/5-A	Method Blank	Total/NA	Solid	8021B	71305
MB 880-71336/5-A	Method Blank	Total/NA	Solid	8021B	71336
LCS 880-71336/1-A	Lab Control Sample	Total/NA	Solid	8021B	71336
LCSD 880-71336/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71336
880-38210-1 MS	CS-35 (2.25')	Total/NA	Solid	8021B	71336
880-38210-1 MSD	CS-35 (2.25')	Total/NA	Solid	8021B	71336

Prep Batch: 71305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71305/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38210-1	CS-35 (2.25')	Total/NA	Solid	5035	
880-38210-2	CS-36 (2.25')	Total/NA	Solid	5035	
880-38210-3	CS-37 (2.25')	Total/NA	Solid	5035	
880-38210-4	CS-38 (2.25')	Total/NA	Solid	5035	
880-38210-5	CS-39 (2.25')	Total/NA	Solid	5035	
880-38210-6	CS-48 (2.25')	Total/NA	Solid	5035	
880-38210-7	CS-50 (2.25')	Total/NA	Solid	5035	
MB 880-71336/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71336/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71336/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38210-1 MS	CS-35 (2.25')	Total/NA	Solid	5035	
880-38210-1 MSD	CS-35 (2.25')	Total/NA	Solid	5035	

Analysis Batch: 71427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38210-1	CS-35 (2.25')	Total/NA	Solid	Total BTEX	
880-38210-2	CS-36 (2.25')	Total/NA	Solid	Total BTEX	
880-38210-3	CS-37 (2.25')	Total/NA	Solid	Total BTEX	
880-38210-4	CS-38 (2.25')	Total/NA	Solid	Total BTEX	
880-38210-5	CS-39 (2.25')	Total/NA	Solid	Total BTEX	
880-38210-6	CS-48 (2.25')	Total/NA	Solid	Total BTEX	
880-38210-7	CS-50 (2.25')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 71295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38210-1	CS-35 (2.25')	Total/NA	Solid	8015B NM	71307
880-38210-2	CS-36 (2.25')	Total/NA	Solid	8015B NM	71307
880-38210-3	CS-37 (2.25')	Total/NA	Solid	8015B NM	71307
880-38210-4	CS-38 (2.25')	Total/NA	Solid	8015B NM	71307

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 71295 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38210-5	CS-39 (2.25')	Total/NA	Solid	8015B NM	71307
880-38210-6	CS-48 (2.25')	Total/NA	Solid	8015B NM	71307
880-38210-7	CS-50 (2.25')	Total/NA	Solid	8015B NM	71307
MB 880-71307/1-A - RA2	Method Blank	Total/NA	Solid	8015B NM	71307
LCS 880-71307/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71307
LCSD 880-71307/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71307
880-38206-A-81-H MS	Matrix Spike	Total/NA	Solid	8015B NM	71307
880-38206-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71307

Prep Batch: 71307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38210-1	CS-35 (2.25')	Total/NA	Solid	8015NM Prep	
880-38210-2	CS-36 (2.25')	Total/NA	Solid	8015NM Prep	
880-38210-3	CS-37 (2.25')	Total/NA	Solid	8015NM Prep	
880-38210-4	CS-38 (2.25')	Total/NA	Solid	8015NM Prep	
880-38210-5	CS-39 (2.25')	Total/NA	Solid	8015NM Prep	
880-38210-6	CS-48 (2.25')	Total/NA	Solid	8015NM Prep	
880-38210-7	CS-50 (2.25')	Total/NA	Solid	8015NM Prep	
MB 880-71307/1-A - RA2	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71307/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71307/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38206-A-81-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38206-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38210-1	CS-35 (2.25')	Total/NA	Solid	8015 NM	
880-38210-2	CS-36 (2.25')	Total/NA	Solid	8015 NM	
880-38210-3	CS-37 (2.25')	Total/NA	Solid	8015 NM	
880-38210-4	CS-38 (2.25')	Total/NA	Solid	8015 NM	
880-38210-5	CS-39 (2.25')	Total/NA	Solid	8015 NM	
880-38210-6	CS-48 (2.25')	Total/NA	Solid	8015 NM	
880-38210-7	CS-50 (2.25')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38210-1	CS-35 (2.25')	Soluble	Solid	DI Leach	
880-38210-2	CS-36 (2.25')	Soluble	Solid	DI Leach	
880-38210-3	CS-37 (2.25')	Soluble	Solid	DI Leach	
880-38210-4	CS-38 (2.25')	Soluble	Solid	DI Leach	
880-38210-5	CS-39 (2.25')	Soluble	Solid	DI Leach	
880-38210-6	CS-48 (2.25')	Soluble	Solid	DI Leach	
880-38210-7	CS-50 (2.25')	Soluble	Solid	DI Leach	
MB 880-71248/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71248/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71248/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38182-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38182-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

HPLC/IC

Analysis Batch: 71275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38210-1	CS-35 (2.25')	Soluble	Solid	300.0	71248
880-38210-2	CS-36 (2.25')	Soluble	Solid	300.0	71248
880-38210-3	CS-37 (2.25')	Soluble	Solid	300.0	71248
880-38210-4	CS-38 (2.25')	Soluble	Solid	300.0	71248
880-38210-5	CS-39 (2.25')	Soluble	Solid	300.0	71248
880-38210-6	CS-48 (2.25')	Soluble	Solid	300.0	71248
880-38210-7	CS-50 (2.25')	Soluble	Solid	300.0	71248
MB 880-71248/1-A	Method Blank	Soluble	Solid	300.0	71248
LCS 880-71248/2-A	Lab Control Sample	Soluble	Solid	300.0	71248
LCSD 880-71248/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71248
880-38182-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	71248
880-38182-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71248

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Client Sample ID: CS-35 (2.25')
Date Collected: 01/18/24 00:00
Date Received: 01/19/24 16:44

Lab Sample ID: 880-38210-1
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	71336	01/22/24 13:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71299	01/23/24 02:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71427	01/23/24 02:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			71437	01/22/24 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	71307	01/22/24 09:16	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71295	01/22/24 14:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71248	01/19/24 18:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71275	01/20/24 23:37	CH	EET MID

Client Sample ID: CS-36 (2.25')
Date Collected: 01/18/24 00:00
Date Received: 01/19/24 16:44

Lab Sample ID: 880-38210-2
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	71336	01/22/24 13:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71299	01/23/24 02:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71427	01/23/24 02:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			71437	01/22/24 14:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71307	01/22/24 09:16	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71295	01/22/24 14:50	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	71248	01/19/24 18:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71275	01/20/24 23:53	CH	EET MID

Client Sample ID: CS-37 (2.25')
Date Collected: 01/18/24 00:00
Date Received: 01/19/24 16:44

Lab Sample ID: 880-38210-3
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			4.96 g	5 mL	71336	01/22/24 13:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71299	01/23/24 03:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71427	01/23/24 03:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			71437	01/22/24 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71307	01/22/24 09:16	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71295	01/22/24 15:13	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71248	01/19/24 18:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71275	01/20/24 23:58	CH	EET MID

Client Sample ID: CS-38 (2.25')
Date Collected: 01/18/24 00:00
Date Received: 01/19/24 16:44

Lab Sample ID: 880-38210-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71336	01/22/24 13:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71299	01/23/24 03:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71427	01/23/24 03:42	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Client Sample ID: CS-38 (2.25')

Lab Sample ID: 880-38210-4

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/19/24 16:44

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			71437	01/22/24 15:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71307	01/22/24 09:16	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71295	01/22/24 15:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71248	01/19/24 18:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71275	01/21/24 00:03	CH	EET MID

Client Sample ID: CS-39 (2.25')

Lab Sample ID: 880-38210-5

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/19/24 16:44

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	71336	01/22/24 13:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71299	01/23/24 04:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71427	01/23/24 04:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			71437	01/22/24 15:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	71307	01/22/24 09:16	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71295	01/22/24 15:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71248	01/19/24 18:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71275	01/21/24 00:08	CH	EET MID

Client Sample ID: CS-48 (2.25')

Lab Sample ID: 880-38210-6

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/19/24 16:44

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	71336	01/22/24 13:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71299	01/23/24 04:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71427	01/23/24 04:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			71437	01/22/24 16:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	71307	01/22/24 09:16	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71295	01/22/24 16:22	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71248	01/19/24 18:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71275	01/21/24 00:13	CH	EET MID

Client Sample ID: CS-50 (2.25')

Lab Sample ID: 880-38210-7

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/19/24 16:44

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	71336	01/22/24 13:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71299	01/23/24 05:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71427	01/23/24 05:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			71437	01/22/24 16:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	71307	01/22/24 09:16	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71295	01/22/24 16:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Client Sample ID: CS-50 (2.25')
Date Collected: 01/18/24 00:00
Date Received: 01/19/24 16:44

Lab Sample ID: 880-38210-7
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			4.97 g	50 mL	71248	01/19/24 18:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71275	01/21/24 00:18	CH	EET MID

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

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	T104704400-23-26	06-30-24
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: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-38210-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38210-1	CS-35 (2.25')	Solid	01/18/24 00:00	01/19/24 16:44
880-38210-2	CS-36 (2.25')	Solid	01/18/24 00:00	01/19/24 16:44
880-38210-3	CS-37 (2.25')	Solid	01/18/24 00:00	01/19/24 16:44
880-38210-4	CS-38 (2.25')	Solid	01/18/24 00:00	01/19/24 16:44
880-38210-5	CS-39 (2.25')	Solid	01/18/24 00:00	01/19/24 16:44
880-38210-6	CS-48 (2.25')	Solid	01/18/24 00:00	01/19/24 16:44
880-38210-7	CS-50 (2.25')	Solid	01/18/24 00:00	01/19/24 16:44

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880-38210 Chain of Custody

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Work Order Comments				
Program:	UST/PST	☐ PRP	☐ Brownfields	☐ RC ☐ Superfund
State of Project:				
Reporting Level II	☐ Level III	☐ ST/UST	☐ RRP	☐ Level IV ☐
Deliverables:	EDD ☐	ADaPT ☐	Other	

[illegible]

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	1/13/2011 1644		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38210-1

SDG Number: Lea County, New Mexico

Login Number: 38210

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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.	N/A	
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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 1/26/2024 5:23:39 PM

JOB DESCRIPTION

Raptor West 3 State #2H
Lea Co, New Mexico

JOB NUMBER

880-38445-1

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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1/26/2024 5:23:39 PM

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

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Laboratory Job ID: 880-38445-1
SDG: Lea Co, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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
SQL	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: Raptor West 3 State #2H

Job ID: 880-38445-1

Job ID: 880-38445-1

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Job Narrative 880-38445-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 sample was received on 1/24/2024 4:55 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: CS-40 (2-2.5') (880-38445-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-71559/20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-71461 and analytical batch 880-71559 recovered outside control limits for the following analytes: <AffectedAnalytes>. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC Semi VOA

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-71535 and analytical batch 880-71621 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

Client Sample ID: CS-40 (2-2.5')

Lab Sample ID: 880-38445-1

Date Collected: 01/18/24 00:00

Matrix: Solid

Date Received: 01/24/24 16:55

Sample Depth: 2.25'

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		01/25/24 10:23	01/25/24 20:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/25/24 10:23	01/25/24 20:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/25/24 10:23	01/25/24 20:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/25/24 10:23	01/25/24 20:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/25/24 10:23	01/25/24 20:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/25/24 10:23	01/25/24 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	01/25/24 10:23	01/25/24 20:57	1
1,4-Difluorobenzene (Surr)	81		70 - 130	01/25/24 10:23	01/25/24 20:57	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			01/25/24 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/26/24 04:22	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		01/25/24 08:57	01/26/24 04:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/25/24 08:57	01/26/24 04:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/24 08:57	01/26/24 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	01/25/24 08:57	01/26/24 04:22	1
o-Terphenyl	94		70 - 130	01/25/24 08:57	01/26/24 04:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.62		4.97		mg/Kg			01/25/24 20:46	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

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)
880-38285-A-101-B MS	Matrix Spike	119	115
880-38285-A-101-C MSD	Matrix Spike Duplicate	120	107
880-38445-1	CS-40 (2-2.5')	83	81
LCS 880-71461/1-A	Lab Control Sample	114	120
LCSD 880-71461/2-A	Lab Control Sample Dup	119	119
MB 880-71461/5-A	Method Blank	74	93
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38285-A-101-F MS	Matrix Spike	92	86
880-38285-A-101-G MSD	Matrix Spike Duplicate	96	90
880-38445-1	CS-40 (2-2.5')	90	94
LCS 880-71494/2-A	Lab Control Sample	98	123
LCSD 880-71494/3-A	Lab Control Sample Dup	90	108
MB 880-71494/1-A	Method Blank	97	104
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71461/5-A

Matrix: Solid

Analysis Batch: 71559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/23/24 15:23	01/25/24 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/23/24 15:23	01/25/24 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/23/24 15:23	01/25/24 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/23/24 15:23	01/25/24 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/23/24 15:23	01/25/24 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/23/24 15:23	01/25/24 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	01/23/24 15:23	01/25/24 11:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/23/24 15:23	01/25/24 11:40	1

Lab Sample ID: LCS 880-71461/1-A

Matrix: Solid

Analysis Batch: 71559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1269		mg/Kg		127	70 - 130
Toluene	0.100	0.1139		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1162		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2365		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1166		mg/Kg		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: LCSD 880-71461/2-A

Matrix: Solid

Analysis Batch: 71559

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71461

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1251		mg/Kg		125	70 - 130	1	35
Toluene	0.100	0.1123		mg/Kg		112	70 - 130	1	35
Ethylbenzene	0.100	0.1151		mg/Kg		115	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2391		mg/Kg		120	70 - 130	1	35
o-Xylene	0.100	0.1182		mg/Kg		118	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: 880-38285-A-101-B MS

Matrix: Solid

Analysis Batch: 71559

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0990	0.1040		mg/Kg		105	70 - 130
Toluene	<0.00201	U	0.0990	0.09649		mg/Kg		97	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

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

Lab Sample ID: 880-38285-A-101-B MS
Matrix: Solid
Analysis Batch: 71559

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0990	0.1058		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2142		mg/Kg		108	70 - 130
o-Xylene	<0.00201	U	0.0990	0.1055		mg/Kg		107	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	119		70 - 130						
1,4-Difluorobenzene (Surr)	115		70 - 130						

Lab Sample ID: 880-38285-A-101-C MSD
Matrix: Solid
Analysis Batch: 71559

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.09802		mg/Kg		99	70 - 130	6	35
Toluene	<0.00201	U	0.0990	0.09204		mg/Kg		93	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0990	0.1002		mg/Kg		101	70 - 130	5	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2057		mg/Kg		104	70 - 130	4	35
o-Xylene	<0.00201	U	0.0990	0.1012		mg/Kg		102	70 - 130	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	120		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								

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

Lab Sample ID: MB 880-71494/1-A
Matrix: Solid
Analysis Batch: 71545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71494

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		01/24/24 09:03	01/25/24 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/24 09:03	01/25/24 19:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/24 09:03	01/25/24 19:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: LCS 880-71494/2-A
Matrix: Solid
Analysis Batch: 71545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	991.7		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	988.8		mg/Kg		99	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

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

Lab Sample ID: LCS 880-71494/2-A

Matrix: Solid

Analysis Batch: 71545

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71494

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: LCSD 880-71494/3-A

Matrix: Solid

Analysis Batch: 71545

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	976.2		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	963.2		mg/Kg		96	70 - 130	3	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-38285-A-101-F MS

Matrix: Solid

Analysis Batch: 71545

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	871.2		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	999	963.8		mg/Kg		94	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-38285-A-101-G MSD

Matrix: Solid

Analysis Batch: 71545

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 71494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	905.0		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1023		mg/Kg		100	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	90		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71535/1-A Matrix: Solid Analysis Batch: 71621										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			01/25/24 18:37	1		

Lab Sample ID: LCS 880-71535/2-A Matrix: Solid Analysis Batch: 71621										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.3		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-71535/3-A Matrix: Solid Analysis Batch: 71621										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	251.9		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-6020-A-1-B MS Matrix: Solid Analysis Batch: 71621										Client Sample ID: Matrix Spike Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	523	F1	249	739.3	F1	mg/Kg		87	90 - 110		

Lab Sample ID: 890-6020-A-1-C MSD Matrix: Solid Analysis Batch: 71621										Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	523	F1	249	758.5		mg/Kg		95	90 - 110	3	20

QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

GC VOA

Prep Batch: 71461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38445-1	CS-40 (2-2.5')	Total/NA	Solid	5035	
MB 880-71461/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71461/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71461/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38285-A-101-B MS	Matrix Spike	Total/NA	Solid	5035	
880-38285-A-101-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38445-1	CS-40 (2-2.5')	Total/NA	Solid	8021B	71461
MB 880-71461/5-A	Method Blank	Total/NA	Solid	8021B	71461
LCS 880-71461/1-A	Lab Control Sample	Total/NA	Solid	8021B	71461
LCSD 880-71461/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71461
880-38285-A-101-B MS	Matrix Spike	Total/NA	Solid	8021B	71461
880-38285-A-101-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71461

Analysis Batch: 71708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38445-1	CS-40 (2-2.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38445-1	CS-40 (2-2.5')	Total/NA	Solid	8015NM Prep	
MB 880-71494/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71494/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71494/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38285-A-101-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38285-A-101-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38445-1	CS-40 (2-2.5')	Total/NA	Solid	8015B NM	71494
MB 880-71494/1-A	Method Blank	Total/NA	Solid	8015B NM	71494
LCS 880-71494/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71494
LCSD 880-71494/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71494
880-38285-A-101-F MS	Matrix Spike	Total/NA	Solid	8015B NM	71494
880-38285-A-101-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71494

Analysis Batch: 71665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38445-1	CS-40 (2-2.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38445-1	CS-40 (2-2.5')	Soluble	Solid	DI Leach	
MB 880-71535/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71535/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71535/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

HPLC/IC (Continued)

Leach Batch: 71535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6020-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6020-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38445-1	CS-40 (2-2.5')	Soluble	Solid	300.0	71535
MB 880-71535/1-A	Method Blank	Soluble	Solid	300.0	71535
LCS 880-71535/2-A	Lab Control Sample	Soluble	Solid	300.0	71535
LCSD 880-71535/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71535
890-6020-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	71535
890-6020-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71535

Lab Chronicle

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

Client Sample ID: CS-40 (2-2.5')
Date Collected: 01/18/24 00:00
Date Received: 01/24/24 16:55

Lab Sample ID: 880-38445-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71461	01/25/24 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71559	01/25/24 20:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71708	01/25/24 20:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			71665	01/26/24 04:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71494	01/25/24 08:57	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71545	01/26/24 04:22	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71535	01/25/24 10:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71621	01/25/24 20:46	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: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

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	T104704400-23-26	06-30-24
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

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

Method Summary

Client: Carmona Resources
Project/Site: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

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: Raptor West 3 State #2H

Job ID: 880-38445-1
SDG: Lea Co, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-38445-1	CS-40 (2-2.5')	Solid	01/18/24 00:00	01/24/24 16:55	2.25'

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



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200 Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199



880-38445 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Clinton Herritt	Bill to: (if different)	"
Company Name:	Carmona Resources	Company Name:	
Address:	310 W. Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX, 79701	City, State ZIP:	
Phone:	432-813-9044	Email:	

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADaPT ☐ Other:

Project Name:		Rafter West 3		Turn Around				ANALYSIS REQUEST																Preservative Codes							
Project Number:		State # 24		☐ Routine ☒ Rush		Pres. Code																		None NO DI Water: H ₂ O							
Project Location:		Len Co, New Mexico		Due Date:		2/1/24																		Cool Cool MeOH Me							
Sampler's Name:		EV		TAT starts the day received by the lab, if received by 4:30pm																				HCL HC HNO ₃ HN							
PO #																								H ₂ SO ₄ H ₂ NaOH Na							
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters																		H ₃ PO ₄ HP			
Samples Received Intact:		Yes No		Yes No		Thermometer ID:		5128		BTEX 8021B																		NaHSO ₄ NABIS			
Cooler Custody Seals:		Yes No		N/A		Correction Factor:		1.20		TPH (GRO + DRO + MRO)																		Na ₂ S ₂ O ₃ NaSO ₃			
Sample Custody Seals:		Yes No		N/A		Temperature Reading:		5.2		C/L inside 300.0																		Zn Acetate+NaOH Zn			
Total Containers:						Corrected Temperature:		5.4																				NaOH+Ascorbic Acid SAPC			
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont																		Sample Comments	
CS - 40 (2-25)		S		1/18/24		-		2.25		Comp		1		X X X																	

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/24/24	2		
		1655	4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38445-1
SDG Number: Lea Co, New Mexico

Login Number: 38445

List Number: 1

Creator: Rodriguez, Leticia

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.	N/A	
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	

APPENDIX F

CARMONA RESOURCES



Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

11/2/2023
Page 1 of 3

Soil Map—Lea County, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
TE	Tonuco fine sand, hummocky	1.5	25.1%
TF	Tonuco loamy fine sand, 0 to 3 percent slopes	4.6	74.9%
Totals for Area of Interest		6.1	100.0%

Map Unit Description: Tonuco fine sand, hummocky---Lea County, New Mexico

Lea County, New Mexico

TE—Tonuco fine sand, hummocky

Map Unit Setting

National map unit symbol: dmrq

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 13 inches

Mean annual air temperature: 59 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landform: Plains, ridges

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: fine sand

AC - 12 to 17 inches: loamy fine sand

Bkm - 17 to 27 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 6 to 20 inches to petrocalcic

Drainage class: Excessively drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 2 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Very low (about 1.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Tonuco fine sand, hummocky---Lea County, New Mexico

Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R077DY046TX - Sandy 12-17" PZ
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 5 percent
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Cacique

Percent of map unit: 3 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Maljamar

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Dune land

Percent of map unit: 2 percent
Hydric soil rating: No

Palomas

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Lea County, New Mexico

Lea County, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw3c

Elevation: 3,280 to 4,460 feet

Mean annual precipitation: 10 to 16 inches

Mean annual air temperature: 59 to 64 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 70 percent

Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landform: Ridges, plains

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits

Typical profile

A - 0 to 12 inches: loamy fine sand

Bw - 12 to 17 inches: loamy sand

Bkkm - 17 to 39 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 12 to 20 inches to petrocalcic

Drainage class: Excessively drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 2 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Lea County, New Mexico

Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R077DY048TX - Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 15 percent
Landform: Ridges, plains
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Berino

Percent of map unit: 10 percent
Landform: Ridges, plains
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 5 percent
Landform: Ridges, plains
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

NMSLO Seed Mix**Loamy (L)****LOAMY (L) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
Total PLS/acre		18.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



APPENDIX G

CARMONA RESOURCES





Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 315992

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 315992
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327550031
Incident Name	NAPP2327550031 RAPTOR 2H @ 30-025-41186
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-41186] RAPTOR WEST 3 STATE #002H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RAPTOR 2H
Date Release Discovered	10/02/2023
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Separator Crude Oil Released: 137 BBL Recovered: 130 BBL Lost: 7 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The source of the leak has been isolated and standing fluids are being recovered from the separator's secondary containment. We have a preliminary volume of 163 bbl. of fluid within the lined, secondary containment; 4.97 bbl. of dark overspray on the pad and approx.. 1.88 bbl. of light overspray in the pasture to the North of the pad. These preliminary volumes are based on dimensions of impact and are subject to change.

District I

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District III

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

District IV

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

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

QUESTIONS, Page 2

Action 315992

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	315992
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 12/04/2023
--	--

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

QUESTIONS, Page 3

Action 315992

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 315992
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	1240
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1930
GRO+DRO	(EPA SW-846 Method 8015M)	1790
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	01/18/2024
On what date will (or did) the final sampling or liner inspection occur	01/18/2024
On what date will (or was) the remediation complete(d)	01/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	67737
What is the estimated volume (in cubic yards) that will be remediated	980

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 315992

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	315992
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Yes
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 02/20/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 315992

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:
	372098
	Action Number:
	315992
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 315992

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	315992
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	303860
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/18/2024
What was the (estimated) number of samples that were to be gathered	55
What was the sampling surface area in square feet	19667

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	67737
What was the total volume (cubic yards) remediated	980
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	In-Situ Remediation: Carmona Resources personnel were on site to guide the in-situ remediation activities within the pasture. The areas of S-7 and S-8 were treated with a Micro-Blaze solution. To ensure homogenization, Carmona Resources personnel will re-collect samples on April 1, 2024. Upon collection of the samples in the pasture area showing homogenization has been achieved, a final closure report describing the remediation activities will be presented to the New Mexico Oil Conservation Division (NMOCD). If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 02/20/2024
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QUESTIONS, Page 7

Action 315992

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 315992
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 315992

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 315992
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/21/2024