

CARMONA RESOURCES



SITE INFORMATION

Work Plan

Heartthrob 17 State CTB
Incident ID: nAPP2224945226
Lea County, New Mexico
Unit L Sec 17 T24S R33E
32.216887°, -103.599227°

Crude Oil Release

Point of Release: Cracked Nipple on LACT Unit
Release Date: 09/02/22
Volume Released: 160 Barrels of Crude Oil
Volume Recovered: 140 Barrels of Crude Oil

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Prepared for:
EOG Resources
5509 Champions Drive
Midland, TX 79706

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

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

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 PROPOSED WORK PLAN

6.0 CONCLUSIONS

FIGURES

FIGURE 1 OVERVIEW

FIGURE 2 TOPOGRAPHIC

FIGURE 3 SAMPLE LOCATION

FIGURE 4 PROPOSED EXCAVATION

APPENDICES

APPENDIX A TABLE

APPENDIX B PHOTOS

APPENDIX C INITIAL C-141 AND REMEDIATION PLAN

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS

APPENDIX F RECLAMATION CRITERIA



November 15, 2023

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

**Re: Work Plan
Heartthrob 17 State CTB
EOG Resources, Inc
Incident # NAPP2224945226
Site Location: Unit L, S17, T24S, R33E
(Lat 32.216887°, Long -103.599227°)
Lea County, New Mexico**

To whom it may concern:

On behalf of EOG Resources, Inc. (EOG), Carmona Resources, LLC has prepared this letter to document site activities for the Heartthrob 17 State CTB. The site is located at 32.216887, -103.599227 within Unit L, S17, T24S, R33E, 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 September 2, 2022, caused by a cracked nipple on a LACT unit. It resulted in the release of one hundred and sixty (160) barrels of crude oil, with one hundred and forty (140) barrels of crude oil 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, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.82 miles Southeast of the site in S17, T24S, R33E, and was drilled in 1959. The well has a reported depth to groundwater of 415' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

On January 18, 2023, Carmona Resources, LLC was onsite to drill a groundwater determination bore to 105' below the ground surface within a 0.50-mile radius of the location. The groundwater determination bore is located approximately 0.10 miles Northeast of the site at 32.218519, -103.596949 in S17, T24S, R33E. The bore was left open for 72 hours and tagged with a water level meter. The bore has shown no signs of water at a depth of 105' below the ground surface (bgs). A copy of the groundwater determination bore log 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).

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



- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 20,000 mg/kg.

4.0 Site Assessment Activities

Trenching Activities

On September 15, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of Fifteen (15) trenches (T-1 through T-15) and thirteen (13) horizontals (H-1 through H-13) were advanced to depths ranging from the surface to 4' bgs within and surrounding the release area to assess the vertical and horizontal extent of the contamination. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical delineation was achieved utilizing a backhoe. See Table 1 for the analytical results.

5.0 Proposed Work Plan

Based on the analytical data and the detected TPH concentrations, EOG proposes to remediate the areas shown in Figure 4 and highlighted (blue) in Table 1.

- The areas of T-3, T-4, T-14, and T-15 will be excavated to a depth of 1.5' below the surface.
- The area of T-13 will be excavated to a depth of 2.0' below the surface.
- The areas of T-5, T-8, T-9, and T-10 will be excavated to a depth of 2.5' below the surface.
- The area of H-13 will be extended during remediation activities and re-collected.
- An estimated 3,800 cubic yards will be removed and hauled to the nearest disposal based on maximum depth.
- A variance is requested per 19.15.29.14. A NMAC, Five-point composite bottom floor hole, and sidewall samples will be collected every 500 square feet to represent the release area.
- Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade and reseeded with SLO sandy loam (SL), per SLO criteria. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds of pure live seed per acre will be doubled. Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one

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growing season, the area will be reseeded as appropriate. The SLO seed mixture details and corresponding pounds of pure live seed per acre are included in Appendix F. The area of pastureland to be reclaimed is approximately 0.62 acres. The remediation will be implemented 90 days after the work plan is approved.

- Impacted soil around oil and gas equipment, structures, or lines may not be removed during remediation activities due to safety concerns for the onsite personnel. However, EOG Resources will excavate the impacted soil to the maximum extent possible.

6.0 Conclusions

Upon completion, 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 contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

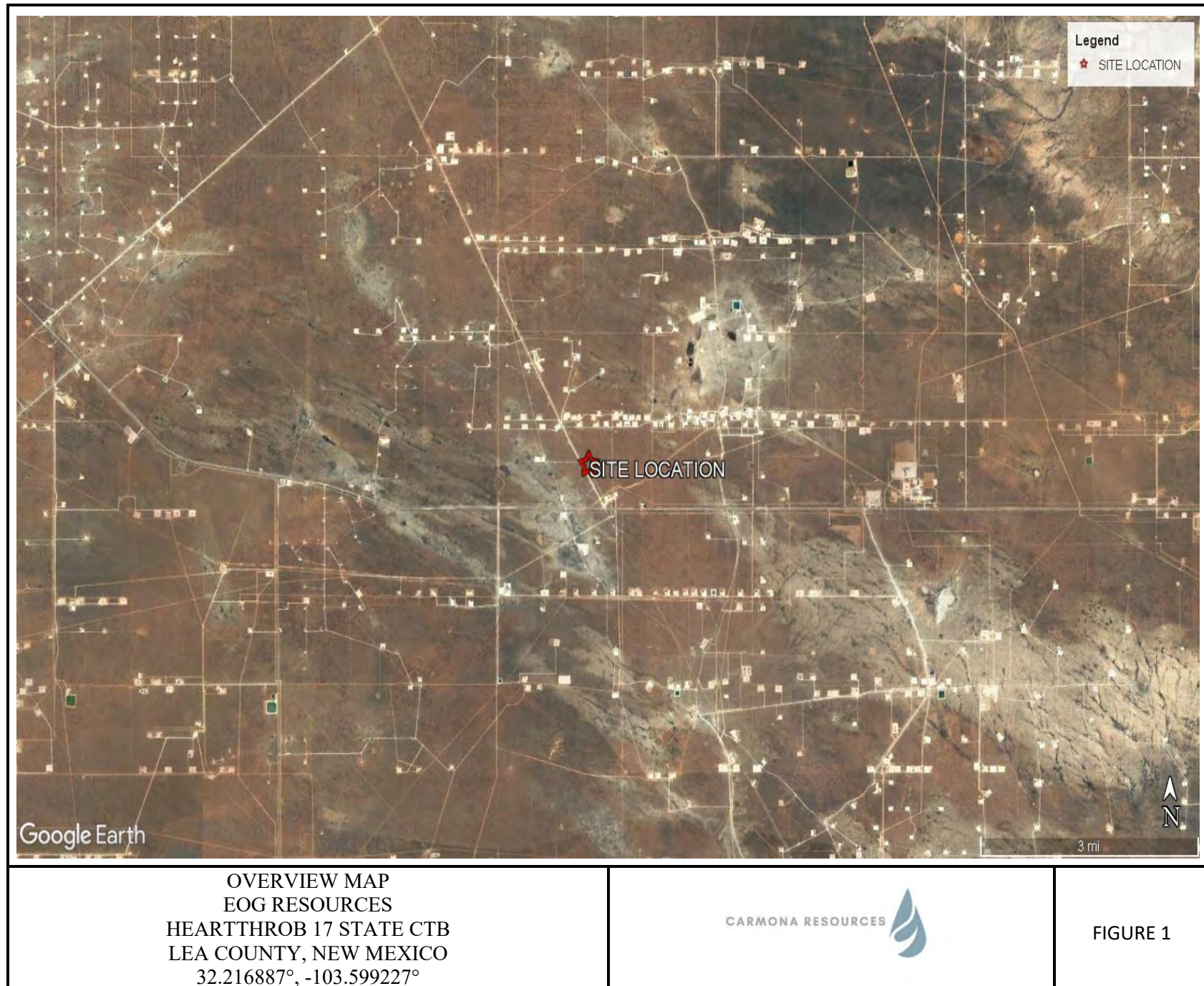
Mike Carmona
Environmental Manager

Devin Dominguez
Sr. Project Manager

FIGURES

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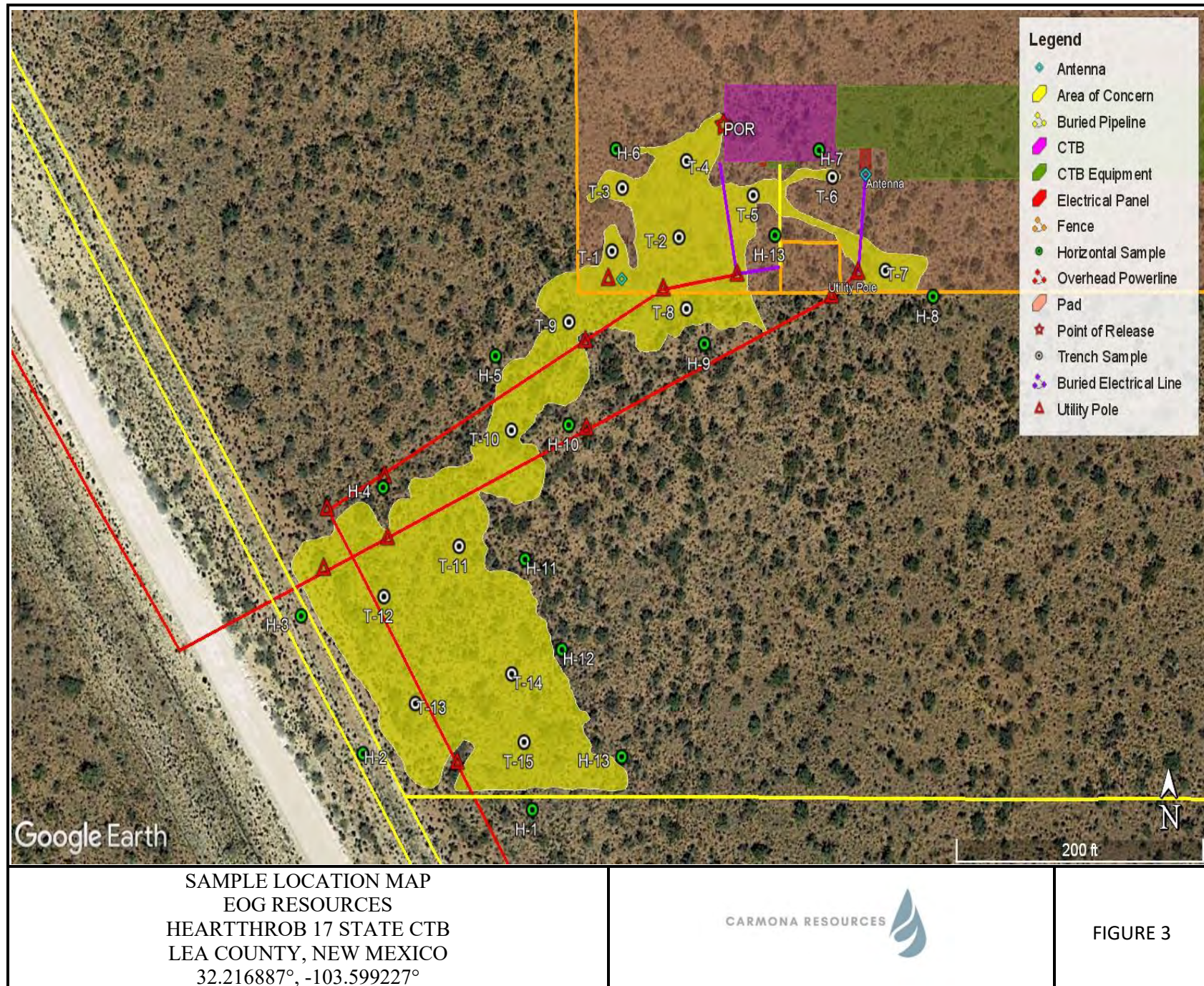


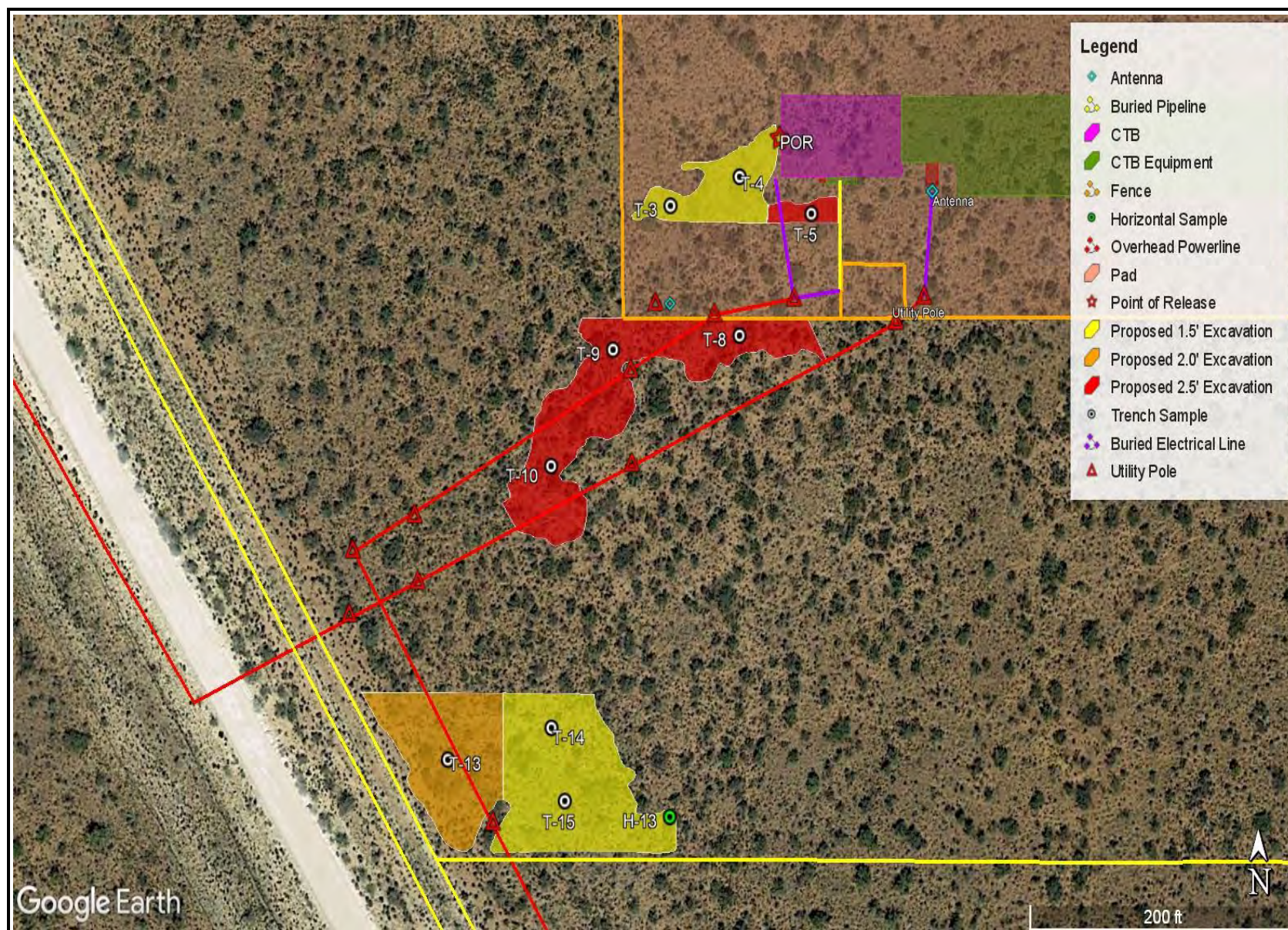


TOPOGRAPHIC MAP
EOG RESOURCES
HEARTTHROB 17 STATE CTB
LEA COUNTY, NEW MEXICO
32.216887°, -103.599227°



FIGURE 2





PROPOSED EXCAVATION DEPTH MAP
EOG RESOURCES
HEARTTHROB 17 STATE CTB
LEA COUNTY, NEW MEXICO
32.216887°, -103.599227°



FIGURE 4

APPENDIX A

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Table 1
EOG Resources
Heartthrob 17 State CTB
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						
T-1	9/18/2023	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	127
	"	1.5	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	97.0
	"	2	<50.5	<50.5	<50.5	<50.5	<0.00199	0.0160	<0.00199	<0.00398	0.0188	78.0
	"	3	<50.0	<50.0	<50.0	<50.0	<0.00198	0.00656	<0.00198	<0.00396	0.00656	75.7
	"	4	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	35.7
T-2	9/18/2023	0-1	<49.7	69.0	<49.7	69.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	114
	"	1.5	<50.4	<50.4	<50.4	<50.4	<0.00200	0.00585	<0.00200	<0.00401	0.00585	111
	"	2	<50.5	51.6	<50.5	51.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	88.2
	"	3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	101
	"	4	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	78.7
T-3	9/18/2023	0-1	<49.6	127	<49.6	127	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	80.5
	"	1.5	<50.2	<50.2	<50.2	<50.2	<0.00201	0.00524	<0.00201	<0.00402	0.00524	83.1
	"	2	<50.5	<50.5	<50.5	<50.5	<0.00202	0.00246	<0.00202	<0.00404	<0.00404	89.4
	"	3	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	74.5
	"	4	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	88.3
T-4	9/18/2023	0-1	<49.7	135	<49.7	135	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	108
	"	1.5	<49.5	<49.5	<49.5	<49.5	<0.00200	0.00466	<0.00200	<0.00399	0.00466	135
	"	2	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	122
	"	3	<50.5	<50.5	<50.5	<50.5	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	85.7
	"	4	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	31.5
T-5	9/18/2023	0-1	<49.6	2,020	395	2,420	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	94.3
	"	1.5	<50.3	70.5	<50.3	70.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	121
	"	2	<50.1	89.6	51.8	141	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	122
	"	3	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	89.9
	"	4	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	42.6
T-6	9/18/2023	0-1	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	135
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	107
	"	2	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	57.9
	"	3	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	62.0
	"	4	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	104
T-7	9/18/2023	0-1	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	116
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	111
	"	2	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	44.2
	"	3	<49.5	<49.5	<49.5	<49.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	79.0
	"	4	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	108
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

(T) Trench Sample

Proposed Excavation

Table 1
EOG Resources
Heartthrob 17 State CTB
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						
T-8	9/18/2023	0-1	<49.8	605	134	739	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	99.2
	"	1.5	<50.2	590	144	734	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	88.4
	"	2	<50.4	300	84.1	384	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	96.7
	"	3	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	53.3
	"	4	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	90.4
T-9	9/18/2023	0-1	<50.1	655	<50.1	655	<0.0199	<0.0199	<0.0199	<0.0398	<0.0398	82.6
	"	1.5	<49.7	248	<49.7	248	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	55.3
	"	2	<49.6	220	<49.6	220	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	59.9
	"	3	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	73.4
	"	4	<50.5	98.8	<50.5	98.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	86.0
T-10	9/18/2023	0-1	<50.1	574	<50.1	574	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	65.4
	"	1.5	<49.7	1,140	<49.7	1,140	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	81.8
	"	2	<49.6	465	<49.6	465	<0.00202	0.00322	<0.00202	<0.00403	<0.00403	73.5
	"	3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	61.7
	"	4	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	58.5
T-11	9/19/2023	0-1	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	116
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	44.8
	"	2	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	75.0
	"	3	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	48.5
	"	4	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	126
T-12	9/19/2023	0-1	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	45.1
	"	1.5	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	111
	"	2	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	34.6
	"	3	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	105
	"	4	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	108
T-13	9/19/2023	0-1	<50.3	1,200	<50.3	1,200	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	106
	"	1.5	<49.6	1,710	<49.6	1,710	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	112
	"	2	<50.3	57.4	<50.3	57.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	20.2
	"	3	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	75.4
	"	4	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	99.8
T-14	9/19/2023	0-1	<50.4	178	<50.4	178	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	54.1
	"	1.5	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	74.4
	"	2	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	84.5
	"	3	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	108
	"	4	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	106
T-15	9/19/2023	0-1	<50.4	307	<50.4	307	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	104
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	109
	"	2	<49.5	<49.5	<49.5	<49.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	83.5
	"	3	<49.5	<49.5	<49.5	<49.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	96.2
	"	4	<49.5	<49.5	<49.5	<49.5	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	34.2
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

(T) Trench Sample

Proposed Excavation

Table 1
EOG Resources
Heartthrob 17 State CTB
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	9/15/2023	0-0.5	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	48.4
H-2	9/15/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	35.8
H-3	9/15/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	67.5
H-4	9/15/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00199	0.00236	<0.00199	<0.00398	<0.00398	35.7
H-5	9/15/2023	0-0.5	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	35.2
H-6	9/15/2023	0-0.5	<50.1	<50.1	<50.1	<50.1	<0.00213	<0.00213	<0.00213	<0.00426	<0.00426	43.7
H-7	9/15/2023	0-0.5	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	41.8
H-8	9/15/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	0.00339	<0.00199	<0.00398	<0.00398	63.7
H-9	9/15/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	63.0
H-10	9/15/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	76.1
H-11	9/15/2023	0-0.5	<49.5	<49.5	<49.5	<49.5	<0.00200	0.00608	<0.00200	<0.00399	0.00608	77.0
H-12	9/15/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	49.0
H-13	9/15/2023	0-0.5	<50.3	1,500	<50.3	1,500	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	57.5
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

Proposed Excavation

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

EOG Resources, Inc

Photograph No. 1

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Northeast, area of T-1.

**Photograph No. 2**

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Northwest, area of T-2.

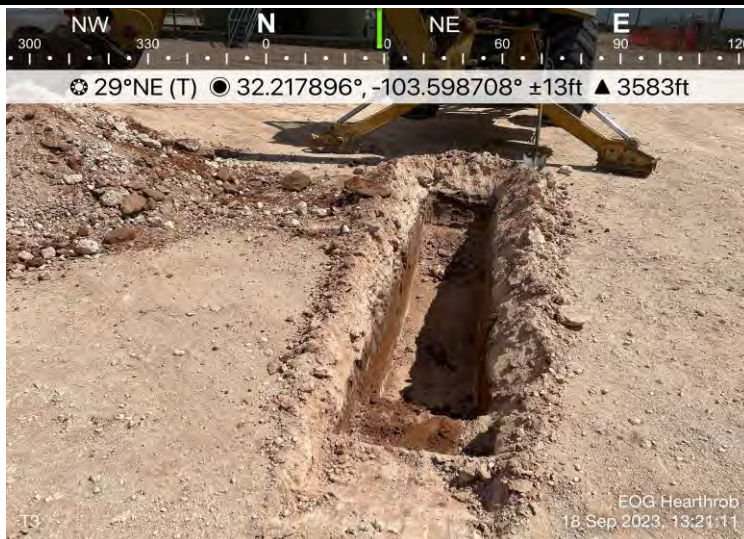
**Photograph No. 3**

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Northeast, area of T-3.



PHOTOGRAPHIC LOG

EOG Resources, Inc

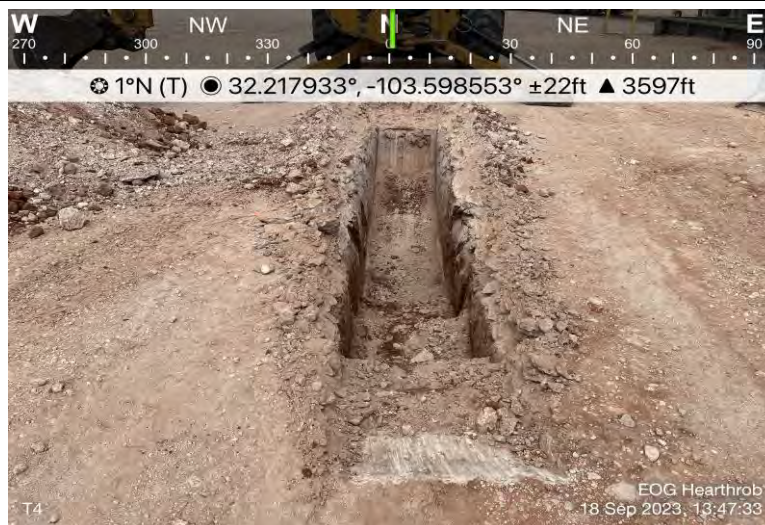
Photograph No. 4

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View North, area of T-4.



Photograph No. 5

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View North, area of T-5.



Photograph No. 6

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Northeast, area of T-6.



PHOTOGRAPHIC LOG

EOG Resources, Inc

Photograph No. 7

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Southwest, area of T-7.



Photograph No. 8

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View West, area of T-8.



Photograph No. 9

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Southeast, area of T-9.



PHOTOGRAPHIC LOG

EOG Resources, Inc

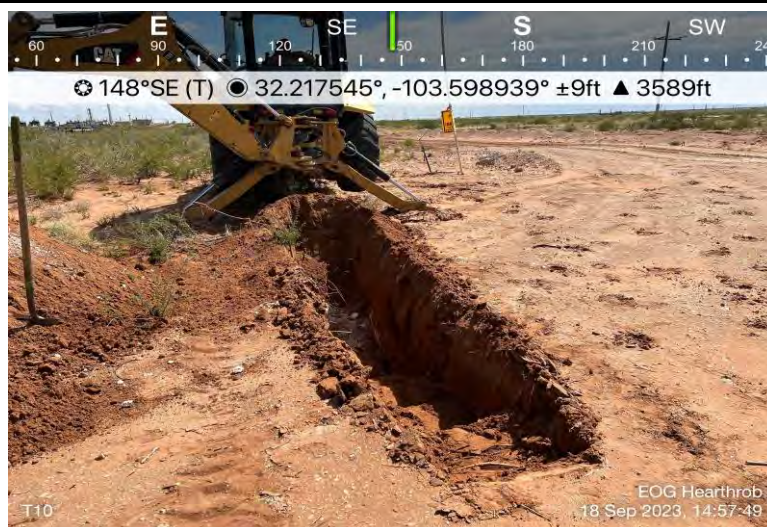
Photograph No. 10

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Southeast, area of T-10.



Photograph No. 11

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Southeast, area of T-11.



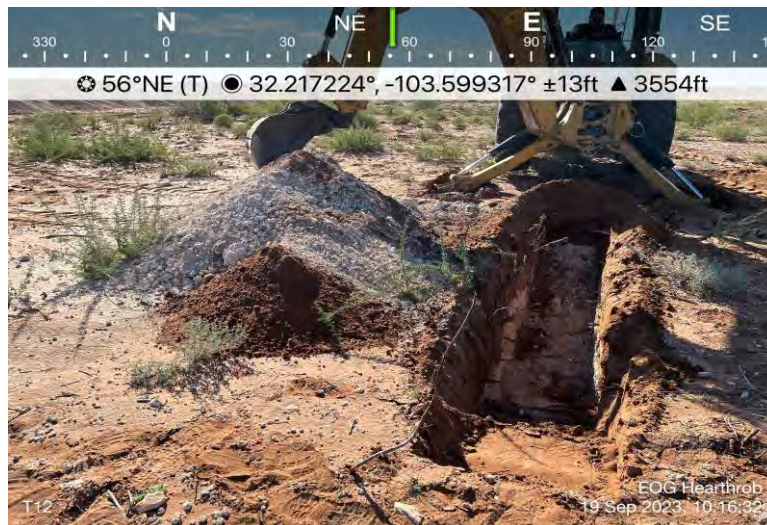
Photograph No. 12

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Northeast, area of T-12.



PHOTOGRAPHIC LOG

EOG Resources, Inc

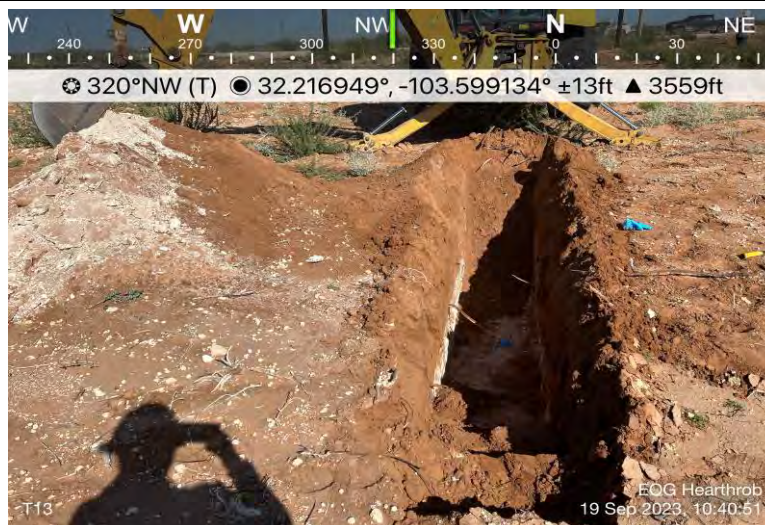
Photograph No. 13

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Northwest, area of T-13.



Photograph No. 14

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View West, area of T-14.



Photograph No. 15

Facility: Heartthrob 17 State CTB

County: Lea County, New Mexico

Description:

View Southwest, area of T-15.



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	nAPP2224945226
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) nAPP2224945226
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.216887° Longitude -103.599227°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Heartthrob 17 State CTB	Site Type CTB
Date Release Discovered 9/2/22	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	17	24S	33E	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) 160	Volume Recovered (bbls) 140
☐ 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: The ¾” nipple cracked on the LACT unit causing the release. This released approximately 160 bbls of crude oil on the pad and into the pasture with 140 bbls recovered.

Incident ID	NAPP2224945226
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? More than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, email notification to the OCD Enviro Inbox on 9/3/22.	

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>Todd Wells</u> Title: <u>Environmental Specialist</u> Signature: <u>Todd Wells</u> Date: <u>9/6/22</u> email: <u>Todd_Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>09/06/2022</u>

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

Page 4

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: Todd Wells Date: 11/17/23

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 11/17/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Todd Wells Date: 11/17/23

email: _____ Telephone: _____

OCD OnlyReceived by: Shelly Wells Date: 11/17/2023☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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 140816

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 140816
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	9/6/2022

APPENDIX D

CARMONA RESOURCES



Nearest water well

EOG Resources

Legend

- 0.10 Miles
- 0.50 Mile Radius
- 0.82 Miles
- 0.89 Miles
- 0.93 Miles
- 1.03 Miles
- Groundwater Determination Bore
- Hearthrob 17 State CTB
- NMSEO Water Well
- USGS Water Well



Low Karst

EOG Resources

Legend

- Heartthrob 17 State CTB
- High
- Low
- Medium

Heartthrob 17 State CTB



2 mi



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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02431	CUB	LE		4	4	4	17	24S	33E	633175	3564728*	1319	525	415	110
C 02432	CUB	LE		4	4	4	17	24S	33E	633175	3564728*	1319	640	415	225
C 03565 POD3	CUB	LE			3	4	08	24S	33E	632763	3566546	1428		1533	
C 02430	CUB	LE		3	3	3	16	24S	33E	633377	3564732*	1500	643	415	228
C 03591 POD1	CUB	LE		2	1	4	05	24S	33E	632731	3568518	3263			
C 04622 POD1	CUB	LE		3	3	4	24	24S	32E	629436	3563006	3467			
C 02890	C	LE			2	4	29	24S	33E	633114	3562012*	3505	500		
C 02308	CUB	LE		1	3	1	10	24S	33E	634953	3567364*	3578	40	20	20
C 01932	C	ED			3	1	12	24S	32E	628633	3567188*	3845	492		

Average Depth to Water: **559 feet**

Minimum Depth: **20 feet**

Maximum Depth: **1533 feet**

Record Count: 9

UTM NAD83 Radius Search (in meters):

Easting (X): 632003.81

Northing (Y): 3565336.76

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.

11/11/22 7:29 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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
C	02431	4	4	4	17	24S	33E	633175	3564728*

x

Driller License:**Driller Company:****Driller Name:** UNKNOWN**Drill Start Date:** 01/01/1950**Drill Finish Date:** 12/31/1959**Plug Date:****Log File Date:****PCW Rev Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:** 20 GPM**Casing Size:** 5.50**Depth Well:** 525 feet**Depth Water:** 415 feet

x

Meter Number:	527	Meter Make:	MASTER MATER
Meter Serial Number:	8430822	Meter Multiplier:	10.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/02/1999	1999	650552	A	ms		0
07/20/1999	1999	686243	A	ms		1.095
11/01/1999	1999	737437	A	ms		1.571
01/10/2000	1999	775085	A	ms		1.155
05/05/2000	2000	816802	A	MB		1.280
07/06/2000	2000	847905	A	mb		0.955
10/25/2000	2000	891939	A	RPT		1.351
01/04/2001	2000	922259	A	RPT		0.930
04/01/2001	2001	936755	A	RPT		0.445
07/01/2001	2001	977796	A	RPT		1.260
10/05/2001	2001	21794	R	RPT	Meter Rollover	1.350
04/02/2002	2002	34581	A	RPT		0.392
07/02/2002	2002	48235	A	RPT		0.419
01/01/2003	2002	83585	A	RPT		1.085
04/03/2003	2003	137817	A	RPT		1.664
07/01/2003	2003	205035	A	RPT		2.063
10/02/2003	2003	229999	A	ab		0.766
10/02/2003	2003	0	A	RPT		0
01/01/2004	2003	31963	A	RPT		0.981
04/04/2004	2004	79491	A	RPT		1.459
07/05/2004	2004	115607	A	RPT		1.108
10/04/2004	2004	174955	A	tw		1.821
01/03/2005	2004	263167	A	RPT		2.707
04/05/2005	2005	295061	A	RPT		0.979
07/01/2005	2005	303397	A	RPT		0.256

10/31/2005	2005	340510	A	RPT	1.139
12/31/2005	2005	343044	A	RPT	0.078
04/20/2006	2006	358240	A	RPT	0.466
07/08/2006	2006	385299	A	tw	0.830
10/02/2006	2006	464312	A	tw	2.425
01/01/2007	2006	529902	A	tw	2.013
04/02/2007	2007	564384	A	RPT	1.058
07/31/2007	2007	598238	A	RPT	1.039
10/28/2007	2007	657403	A	RPT	1.816
01/01/2008	2007	665919	A	RPT	0.261
04/16/2008	2008	681782	A	RPT	0.487
07/01/2008	2008	752289	A	RPT	2.164
10/03/2008	2008	853345	A	RPT	3.101
12/31/2008	2008	911746	A	RPT	1.792
04/01/2009	2009	77518	R	RPT Meter Rollover	5.087
07/05/2009	2009	173250	A	RPT	2.938
10/05/2009	2009	237006	A	RPT	1.957
01/01/2010	2009	293782	A	RPT	1.742
04/04/2010	2010	343160	A	RPT	1.515
07/01/2010	2010	413054	A	RPT	2.145
10/01/2010	2010	444699	A	RPT	0.971
12/31/2010	2010	515095	A	RPT	2.160
04/01/2011	2011	566481	A	RPT	1.577
10/08/2011	2011	583050	A	RPT	0.508
12/31/2011	2011	583050	A	RPT	0
04/01/2012	2012	1507	R	RPT Meter Rollover	12.842
07/02/2012	2012	9762	A	RPT	0.253
10/02/2012	2012	86066	A	RPT	2.342
01/01/2013	2012	179867	A	RPT	2.879
04/03/2013	2013	282553	A	tw	3.151
07/01/2013	2013	71526	R	RPT Meter Rollover	24.213
10/03/2013	2013	82080	A	RPT	0.324
12/31/2013	2013	93386	A	RPT	0.347
04/01/2014	2014	653187	A	RPT	0
07/01/2014	2014	764589	A	RPT	3.419
10/03/2014	2014	875000	A	RPT	3.388
01/07/2015	2014	955160	A	RPT	2.460
01/26/2015	2015	965041	A	RPT	0.303
01/27/2015	2015	585131	A	tw	0
03/09/2015	2015	622092	A	RPT	1.134
03/10/2015	2015	0	A	RPT	0
04/05/2015	2015	66072	A	RPT	2.028
07/01/2015	2015	90118	A	RPT	0.738
10/02/2015	2015	185632	A	RPT	2.931
12/31/2015	2015	247746	A	RPT	1.906
04/01/2016	2016	327318	A	RPT	2.442
07/01/2016	2016	401151	A	RPT	2.266
10/01/2016	2016	492395	A	RPT	2.800
01/01/2017	2016	562688	A	RPT	2.157

x

****YTD Meter Amounts: Year Amount**

1999	3.821
2000	4.516
2001	3.055
2002	1.896
2003	5.474
2004	7.095
2005	2.452
2006	5.734
2007	4.174
2008	7.544
2009	11.724
2010	6.791
2011	2.085
2012	18.316
2013	28.035
2014	9.267
2015	9.040
2016	9.665

x

***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.

11/11/22 7:32 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
C	03565 POD3	3	4	08	24S	33E	632763	3566546	

Driller License: 331 **Driller Company:** SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.

Driller Name:

Drill Start Date: 09/27/2012 **Drill Finish Date:** 10/21/2012 **Plug Date:**

Log File Date: 12/11/2012 **PCW Rev Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 8.90 **Depth Well:** **Depth Water:** 1533 feet

Water Bearing Stratifications:

Top	Bottom	Description
0	20	Other/Unknown
20	55	Sandstone/Gravel/Conglomerate
55	1227	Shale/Mudstone/Siltstone
1227	1262	Other/Unknown
1262	1295	Other/Unknown
1295	1310	Other/Unknown
1310	1330	Other/Unknown
1330	1375	Other/Unknown
1479	1489	Other/Unknown
1489	1533	Other/Unknown

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11/11/22 7:33 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
C	02430	3	3	3	16	24S	33E	633377	3564732*

x

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE
-------------------------	-----	-------------------------	----------------------------

Driller Name:	GLENN'S
----------------------	---------

Drill Start Date:	01/01/1970	Drill Finish Date:	12/31/1982	Plug Date:	
Log File Date:		PCW Rev Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	12 GPM
Casing Size:	8.63	Depth Well:	643 feet	Depth Water:	415 feet

x

Meter Number:	526	Meter Make:	MASTER METER
Meter Serial Number:	6173115	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
12/30/1998	1999	222014	A	ms		0	
04/02/1999	1999	222014	A	ms		0	
07/20/1999	1999	229709	A	ms		2.362	
11/01/1999	1999	243643	A	ms		4.276	
01/01/2000	2000	0	A	MB		0	
01/10/2000	2000	0	A	ms		0	
01/10/2000	1999	254720	A	ms		3.399	
05/05/2000	2000	16024	A	MB		4.918	
07/06/2000	2000	25577	A	RPT		2.932	
10/05/2000	2000	41965	A	ms		5.029	
01/04/2001	2000	49216	A	RPT		2.225	
04/01/2001	2001	57467	A	RPT		2.532	
07/01/2001	2001	71275	A	RPT		4.238	
10/05/2001	2001	85782	A	RPT		4.452	
04/01/2002	2002	94480	A	mb		2.669	
07/02/2002	2002	101278	A	rm		2.086	
01/01/2003	2002	119207	A	RPT		5.502	
04/01/2003	2003	139769	A	RPT		6.310	
07/01/2003	2003	154457	A	RPT		4.508	
10/02/2003	2003	170631	A	ab		4.964	
01/01/2004	2003	186443	A	ab		4.853	
04/04/2004	2004	199408	A	RPT		3.979	
07/01/2004	2004	211814	A	RPT		3.807	
10/04/2004	2004	223841	A	tw		3.691	
10/24/2004	2004	0	A	RPT		0	

01/03/2005	2004	13173	A	RPT	4.043
04/05/2005	2005	25213	A	RPT	3.695
07/01/2005	2005	31810	A	RPT	2.025
10/31/2005	2005	46571	A	RPT	4.530
12/31/2005	2005	51640	A	RPT	1.556
04/20/2006	2006	64273	A	RPT	3.877
07/08/2006	2006	76246	A	tw	3.674
10/02/2006	2006	93830	A	tw	5.396
01/01/2007	2006	111048	A	tw	5.284
04/03/2007	2007	124685	A	RPT	4.185
07/31/2007	2007	143346	A	RPT	5.727
10/28/2007	2007	156617	A	RPT	4.073
01/01/2008	2007	163870	A	RPT	2.226
04/16/2008	2008	173327	A	RPT	2.902
07/01/2008	2008	182792	A	RPT	2.905
10/03/2008	2008	197162	A	RPT	4.410
12/31/2008	2008	210221	A	RPT	4.008
04/01/2009	2009	228122	A	RPT	5.494
07/05/2009	2009	243585	A	RPT	4.745
10/05/2009	2009	266518	A	RPT	7.038
01/01/2010	2009	286715	A	RPT	6.198
04/04/2010	2010	316041	A	RPT	9.000
07/01/2010	2010	355132	A	RPT	11.997
10/01/2010	2010	371894	A	RPT	5.144
12/31/2010	2010	398722	A	RPT	8.233
04/01/2011	2011	427251	A	RPT	8.755
07/01/2011	2011	455947	A	RPT	8.806
10/08/2011	2011	487406	A	RPT	9.654
12/31/2011	2011	512383	A	RPT	7.665
04/01/2012	2012	542641	A	RPT	9.286
07/02/2012	2012	560510	A	RPT	5.484
10/02/2012	2012	571427	A	RPT	3.350
01/01/2013	2012	107852	R	RPT Meter Rollover	164.623
04/03/2013	2013	142637	A	RPT	10.675
07/01/2013	2013	173648	A	RPT	9.517
10/03/2013	2013	178608	A	RPT	1.522
12/31/2013	2013	202691	A	RPT	7.391
04/01/2014	2014	234481	A	RPT	9.756
07/01/2014	2014	267094	A	RPT	10.009
10/03/2014	2014	302205	A	RPT	10.775
01/07/2015	2014	337260	A	RPT	10.758
01/12/2015	2015	0	A	RPT	0
04/05/2015	2015	25923	A	RPT	7.955
07/01/2015	2015	56013	A	RPT	9.234
12/31/2015	2015	270240	A	RPT	0
04/01/2016	2016	289242	A	RPT	5.831
07/01/2016	2016	311329	A	RPT	6.778
10/01/2016	2016	333139	A	RPT	6.693
01/01/2017	2016	356495	A	RPT	7.168

x

****YTD Meter Amounts: Year Amount**

1999	10.037
2000	15.104
2001	11.222
2002	10.257
2003	20.635
2004	15.520
2005	11.806
2006	18.231
2007	16.211
2008	14.225
2009	23.475
2010	34.374
2011	34.880
2012	182.743
2013	29.105
2014	41.298
2015	17.189
2016	26.470

x

*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.

11/11/22 7:35 AM

POINT OF DIVERSION SUMMARY



USGS Home
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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

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- Effective October 24, 2022 hyperlinks to legacy Current Condition pages will automatically redirect users to the corresponding Monitoring Location page. Please see the [Water Data For The Nation Blog](#) for full details, including how to navigate back to the legacy Current Condition page, if desired.
- 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 =

- 321236103350101

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

USGS 321236103350101 24S.33E.17.444414

Lea County, New Mexico
Latitude 32°12'36", Longitude 103°35'01" NAD27
Land-surface elevation 3,573 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) 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 measu
1986-03-11			D 62610		3473.93	NGVD29	1		Z	
1986-03-11			D 62611		3475.63	NAVD88	1		Z	
1986-03-11			D 72019	97.37			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

Section	Code	Description
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
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.

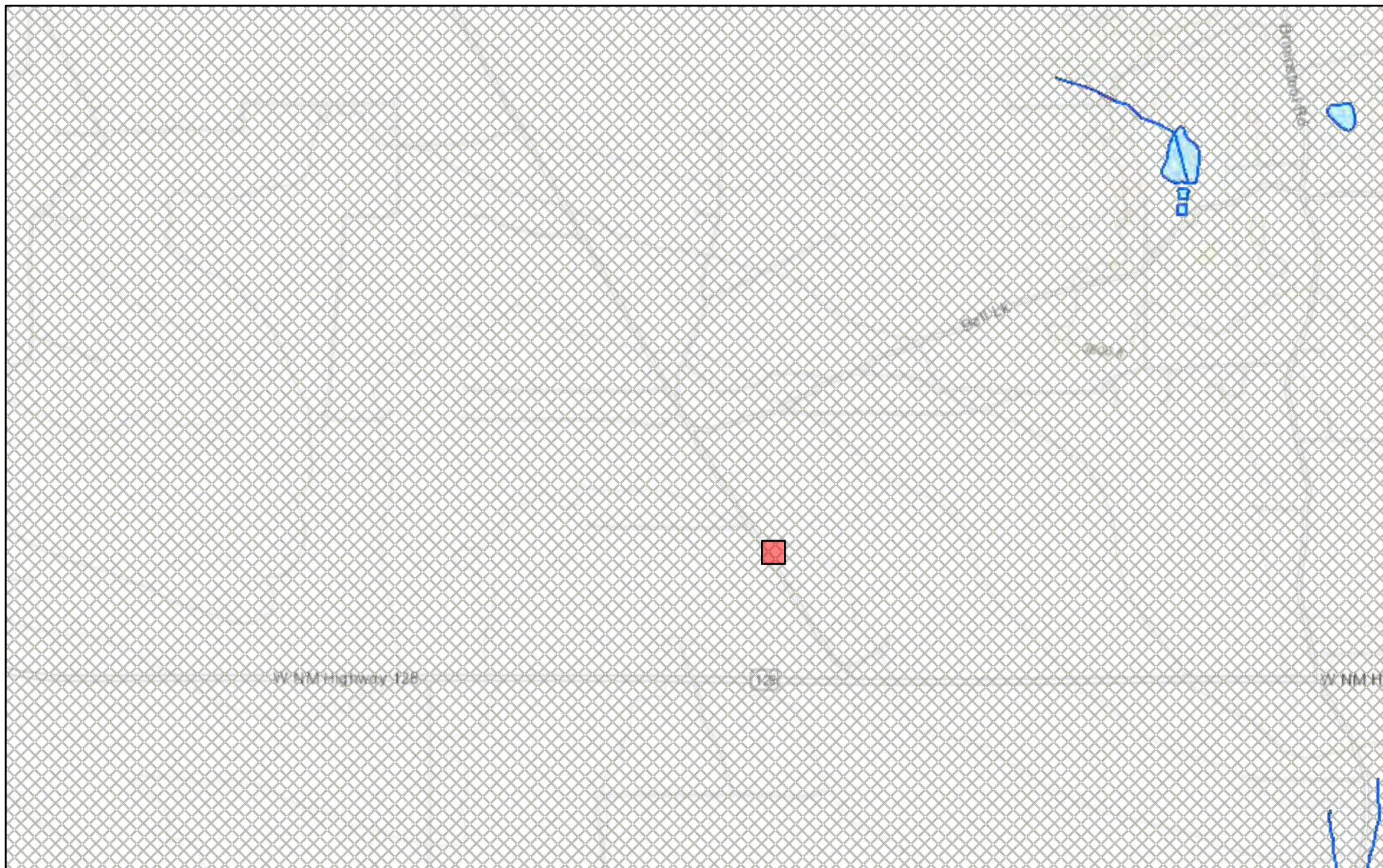
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Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

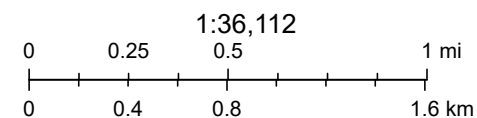


Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2022-11-11 09:36:40 EST
0.29 0.25 nadww01

New Mexico NFHL Data



November 11, 2022



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

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Project Name :	EOG - Heartthrob 17 CTB	Date :	Wednesday, January 18, 2023
Project No. :	1179	Sampler :	Lane Scarborough
Location :	Lea County, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.218519°, -103.596949°	Method :	Air Rotary
Elevation :	3,552'		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Red to Brown very loose, fine sand with 25% very loose coarse sand, dry, no odor, no organics (SM).		50		(50') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	
5		(5') - Red to Brown very loose, fine sand with 25% very loose coarse sand, dry, no odor, no organics (SM).		55		(55') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	
10		(10') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).		60		(60') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	
15		(15') - white very dense, fine, sand with gypsum, dry, no odor, no organics (SM).		65		(65') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	
20		(20') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).		70		(70') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	
25		(25') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).		75		(75') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	
30		(30') - Light brown well graded gravel, w/ <50% loose, coarse sand and caliche, no organics, dry (GM).		80		(80') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	
35		(35') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).		85		(85') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	
40		(40') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).		90		(90') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	
45		(45') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).		95		(95') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	
50				105		(105') - Light brown very loose, fine, sand with 25% very loose coarse sand, dry, no odor, no organics (SM).	

Comments : Boring terminated at 105' with no presence of groundwater or moisture.

APPENDIX E

CARMONA RESOURCES





Environment Testing

- 1
- 2
- 3
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- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 9/25/2023 3:15:07 PM

JOB DESCRIPTION

Heartthrob 17 CTB
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-33440-1

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: Heartthrob 17 CTB

Laboratory Job ID: 880-33440-1
SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	10
Surrogate Summary	67
QC Sample Results	72
QC Association Summary	92
Lab Chronicle	109
Certification Summary	132
Method Summary	133
Sample Summary	134
Chain of Custody	136
Receipt Checklists	144

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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
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.
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)

Definitions/Glossary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

- 1
- 2
- 3
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Case Narrative

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Job ID: 880-33440-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-33440-1**

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 9/20/2023 9:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-33440-1), T-1 (1.5') (880-33440-2), T-1 (2') (880-33440-3), T-1 (3') (880-33440-4), T-1 (4') (880-33440-5), T-2 (0-1') (880-33440-6), T-2 (1.5') (880-33440-7), T-2 (2') (880-33440-8), T-2 (3') (880-33440-9), T-2 (4') (880-33440-10), T-3 (0-1') (880-33440-11), T-3 (1.5') (880-33440-12), T-3 (2') (880-33440-13), T-3 (3') (880-33440-14), T-3 (4') (880-33440-15), T-4 (0-1') (880-33440-16), T-4 (1.5') (880-33440-17), T-4 (2') (880-33440-18), T-4 (3') (880-33440-19), T-4 (4') (880-33440-20), T-5 (0-1') (880-33440-21), T-5 (1.5') (880-33440-22), T-5 (2') (880-33440-23), T-5 (3') (880-33440-24), T-5 (4') (880-33440-25), T-6 (0-1') (880-33440-26), T-6 (1.5') (880-33440-27), T-6 (2') (880-33440-28), T-6 (3') (880-33440-29), T-6 (4') (880-33440-30), T-7 (0-1') (880-33440-31), T-7 (1.5') (880-33440-32), T-7 (2') (880-33440-33), T-7 (3') (880-33440-34), T-7 (4') (880-33440-35), T-8 (0-1') (880-33440-36), T-8 (1.5') (880-33440-37), T-8 (2') (880-33440-38), T-8 (3') (880-33440-39), T-8 (4') (880-33440-40), T-9 (0-1') (880-33440-41), T-9 (1.5') (880-33440-42), T-9 (2') (880-33440-43), T-9 (3') (880-33440-44), T-9 (4') (880-33440-45), T-10 (0-1') (880-33440-46), T-10 (1.5') (880-33440-47), T-10 (2') (880-33440-48), T-10 (3') (880-33440-49), T-10 (4') (880-33440-50), T-11 (0-1') (880-33440-51), T-11 (1.5') (880-33440-52), T-11 (2') (880-33440-53), T-11 (3') (880-33440-54), T-11 (4') (880-33440-55), T-12 (0-1') (880-33440-56), T-12 (1.5') (880-33440-57), T-12 (2') (880-33440-58), T-12 (3') (880-33440-59), T-12 (4') (880-33440-60), T-13 (0-1') (880-33440-61), T-13 (1.5') (880-33440-62), T-13 (2') (880-33440-63), T-13 (3') (880-33440-64), T-13 (4') (880-33440-65), T-14 (0-1') (880-33440-66), T-14 (1.5') (880-33440-67), T-14 (2') (880-33440-68), T-14 (3') (880-33440-69), T-14 (4') (880-33440-70), T-15 (0-1') (880-33440-71), T-15 (1.5') (880-33440-72), T-15 (2') (880-33440-73), T-15 (3') (880-33440-74) and T-15 (4') (880-33440-75).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62884 and analytical batch 880-62867 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-1 (0-1') (880-33440-1), T-1 (2') (880-33440-3), T-2 (3') (880-33440-9), T-2 (4') (880-33440-10), T-3 (1.5') (880-33440-12) and T-4 (1.5') (880-33440-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62886 and analytical batch 880-62964 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-9 (0-1') (880-33440-41) and T-9 (3') (880-33440-44). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-6 (0-1') (880-33440-26), T-6 (4') (880-33440-30) and (CCV 880-62963/20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not

Case Narrative

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Job ID: 880-33440-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62885 and 880-62887 and analytical batch 880-62963 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-62887 and analytical batch 880-62963 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-62964 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-62985 and analytical batch 880-62965 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-62980 and analytical batch 880-62965 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-33473-A-1-E MS). 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 880-62985 and analytical batch 880-62965 was outside the upper control limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-62985 and analytical batch 880-62965 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-11 (1.5') (880-33440-52). 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: T-12 (0-1') (880-33440-56). 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: (MB 880-62885/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-14 (2') (880-33440-68). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-9 (0-1') (880-33440-41) and T-12 (4') (880-33440-60). 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 samples were outside control limits: (CCV 880-62865/5) and (LCSD 880-62903/3-A). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Job ID: 880-33440-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-1 (2') (880-33440-3), T-1 (3') (880-33440-4), T-1 (4') (880-33440-5), T-2 (0-1') (880-33440-6), T-2 (1.5') (880-33440-7), T-2 (2') (880-33440-8), T-2 (3') (880-33440-9), T-2 (4') (880-33440-10), (880-33440-A-1-H MS) and (880-33440-A-1-I 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: T-3 (0-1') (880-33440-11), T-3 (2') (880-33440-13), T-3 (4') (880-33440-15), T-4 (0-1') (880-33440-16), T-4 (1.5') (880-33440-17), T-4 (2') (880-33440-18) and T-4 (3') (880-33440-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-62903 and analytical batch 880-62865. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-62928 and analytical batch 880-62863 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-13 (0-1') (880-33440-61), T-13 (1.5') (880-33440-62), T-13 (2') (880-33440-63), T-13 (3') (880-33440-64), T-13 (4') (880-33440-65), T-14 (0-1') (880-33440-66), T-14 (1.5') (880-33440-67), T-14 (2') (880-33440-68), T-14 (3') (880-33440-69), T-14 (4') (880-33440-70), (880-33440-A-63-D MS) and (880-33440-A-63-E 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: T-15 (0-1') (880-33440-71), T-15 (1.5') (880-33440-72), T-15 (2') (880-33440-73), T-15 (3') (880-33440-74) and T-15 (4') (880-33440-75). 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: (CCV 880-62863/31), (CCV 880-62863/47) and (CCV 880-62863/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-12 (2') (880-33440-58) and (880-33440-A-42-D MS). 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: (CCV 880-62862/31). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-62906 and analytical batch 880-62862 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-62862 recovered below the lower control limits. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-62862/31).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-62860/20), (CCV 880-62860/31), (CCV 880-62860/47), (CCV 880-62860/5), (CCV 880-62860/58) and (LCS 880-62904/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62904 and analytical batch 880-62860 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Case Narrative

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Job ID: 880-33440-1 (Continued)**Laboratory: Eurofins Midland (Continued)****HPLC/IC**

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62890 and 880-62890 and analytical batch 880-62939 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. The associated samples are: T-1 (0-1') (880-33440-1), T-1 (1.5') (880-33440-2), T-1 (2') (880-33440-3), T-1 (3') (880-33440-4), T-1 (4') (880-33440-5), T-2 (0-1') (880-33440-6), T-2 (1.5') (880-33440-7), T-2 (2') (880-33440-8), T-2 (3') (880-33440-9), T-2 (4') (880-33440-10), (880-33440-A-1-E MS) and (880-33440-A-1-F MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62890 and 880-62890 and analytical batch 880-62939 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. The associated samples are: T-3 (0-1') (880-33440-11), T-3 (1.5') (880-33440-12), T-3 (2') (880-33440-13), T-3 (3') (880-33440-14), T-3 (4') (880-33440-15), T-4 (0-1') (880-33440-16), T-4 (1.5') (880-33440-17), T-4 (2') (880-33440-18), T-4 (3') (880-33440-19), T-4 (4') (880-33440-20), (880-33440-A-11-C MS) and (880-33440-A-11-D MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62894 and analytical batch 880-63057 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. The associated samples are: T-7 (0-1') (880-33440-31), T-7 (1.5') (880-33440-32), T-7 (2') (880-33440-33), T-7 (3') (880-33440-34), T-7 (4') (880-33440-35), T-8 (0-1') (880-33440-36), T-8 (1.5') (880-33440-37), T-8 (2') (880-33440-38), T-8 (3') (880-33440-39), T-8 (4') (880-33440-40), (880-33440-A-31-C MS) and (880-33440-A-31-D MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62895 and analytical batch 880-63058 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. The associated samples are: T-11 (0-1') (880-33440-51), T-11 (1.5') (880-33440-52), T-11 (2') (880-33440-53), T-11 (3') (880-33440-54), T-11 (4') (880-33440-55), T-12 (0-1') (880-33440-56), T-12 (1.5') (880-33440-57), T-12 (2') (880-33440-58), T-12 (3') (880-33440-59), T-12 (4') (880-33440-60), (880-33440-A-51-C MS) and (880-33440-A-51-D MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62896 and 880-62896 and analytical batch 880-63063 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. The associated samples are: T-13 (0-1') (880-33440-61), T-13 (1.5') (880-33440-62), T-13 (2') (880-33440-63), T-13 (3') (880-33440-64), T-13 (4') (880-33440-65), T-14 (0-1') (880-33440-66), T-14 (1.5') (880-33440-67), T-14 (2') (880-33440-68), T-14 (3') (880-33440-69), T-14 (4') (880-33440-70), (880-33440-A-61-B MS) and (880-33440-A-61-C MSD).

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: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-33440-1

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		09/20/23 10:06	09/20/23 22:12	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		09/20/23 10:06	09/20/23 22:12	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		09/20/23 10:06	09/20/23 22:12	1
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.00400		mg/Kg		09/20/23 10:06	09/20/23 22:12	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		09/20/23 10:06	09/20/23 22:12	1
Xylenes, Total	<0.00400	U F2 F1	0.00400		mg/Kg		09/20/23 10:06	09/20/23 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	09/20/23 10:06	09/20/23 22:12	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	09/20/23 10:06	09/20/23 22:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/20/23 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	<49.9	U	49.9		mg/Kg			09/20/23 12:25	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 F1	49.9		mg/Kg		09/20/23 11:21	09/20/23 12:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		09/20/23 11:21	09/20/23 12:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/23 11:21	09/20/23 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	09/20/23 11:21	09/20/23 12:25	1
o-Terphenyl	128		70 - 130	09/20/23 11:21	09/20/23 12:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127	F1	4.99		mg/Kg			09/20/23 21:37	1

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-33440-2

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/20/23 22:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/20/23 22:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/20/23 22:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/20/23 22:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/20/23 22:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/20/23 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/20/23 10:06	09/20/23 22:32	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/20/23 10:06	09/20/23 22:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-33440-2

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/20/23 22:32	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			09/20/23 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	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 13:30	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 13:30	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				09/20/23 11:21	09/20/23 13:30	1
o-Terphenyl	128		70 - 130				09/20/23 11:21	09/20/23 13:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.0		5.03		mg/Kg			09/20/23 21:57	1

Client Sample ID: T-1 (2')

Lab Sample ID: 880-33440-3

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/20/23 22:52	1
Toluene	0.0160		0.00199		mg/Kg		09/20/23 10:06	09/20/23 22:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/20/23 22:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/20/23 22:52	1
o-Xylene	0.00282		0.00199		mg/Kg		09/20/23 10:06	09/20/23 22:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/20/23 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130				09/20/23 10:06	09/20/23 22:52	1
1,4-Difluorobenzene (Surr)	107		70 - 130				09/20/23 10:06	09/20/23 22:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0188		0.00398		mg/Kg			09/20/23 22:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			09/20/23 13:51	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	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 13:51	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 13:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (2')

Lab Sample ID: 880-33440-3

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 11:21	09/20/23 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130				09/20/23 11:21	09/20/23 13:51	1
o-Terphenyl	175	S1+	70 - 130				09/20/23 11:21	09/20/23 13:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.0		5.04		mg/Kg			09/20/23 22:03	1

Client Sample ID: T-1 (3')

Lab Sample ID: 880-33440-4

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/20/23 23:13	1
Toluene	0.00656		0.00198		mg/Kg		09/20/23 10:06	09/20/23 23:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:06	09/20/23 23:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/20/23 10:06	09/20/23 23:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:06	09/20/23 23:13	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/20/23 10:06	09/20/23 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130				09/20/23 10:06	09/20/23 23:13	1
1,4-Difluorobenzene (Surr)	85		70 - 130				09/20/23 10:06	09/20/23 23:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00656		0.00396		mg/Kg			09/20/23 23:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/20/23 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/20/23 11:21	09/20/23 14:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/23 11:21	09/20/23 14:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/23 11:21	09/20/23 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130				09/20/23 11:21	09/20/23 14:13	1
o-Terphenyl	191	S1+	70 - 130				09/20/23 11:21	09/20/23 14:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.7		5.02		mg/Kg			09/20/23 22:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (4')

Lab Sample ID: 880-33440-5

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/20/23 23:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/20/23 23:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/20/23 23:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:06	09/20/23 23:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/20/23 23:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:06	09/20/23 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	09/20/23 10:06	09/20/23 23:33	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/20/23 10:06	09/20/23 23:33	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			09/20/23 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/20/23 14:35	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		09/20/23 11:21	09/20/23 14:35	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/20/23 11:21	09/20/23 14:35	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/20/23 11:21	09/20/23 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	188	S1+	70 - 130	09/20/23 11:21	09/20/23 14:35	1
o-Terphenyl	213	S1+	70 - 130	09/20/23 11:21	09/20/23 14:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.7		5.02		mg/Kg			09/20/23 22:17	1

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-33440-6

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/20/23 23:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:06	09/20/23 23:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:06	09/20/23 23:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/20/23 10:06	09/20/23 23:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:06	09/20/23 23:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/20/23 10:06	09/20/23 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	09/20/23 10:06	09/20/23 23:54	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/20/23 10:06	09/20/23 23:54	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-33440-6

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/20/23 23:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.0		49.7		mg/Kg			09/20/23 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	<49.7	U	49.7		mg/Kg		09/20/23 11:21	09/20/23 14:58	1
Diesel Range Organics (Over C10-C28)	69.0		49.7		mg/Kg		09/20/23 11:21	09/20/23 14:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/20/23 11:21	09/20/23 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				09/20/23 11:21	09/20/23 14:58	1
o-Terphenyl	156	S1+	70 - 130				09/20/23 11:21	09/20/23 14:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		4.98		mg/Kg			09/20/23 22:37	1

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-33440-7

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 00:14	1
Toluene	0.00585		0.00200		mg/Kg		09/20/23 10:06	09/21/23 00:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/21/23 00:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/20/23 10:06	09/21/23 00:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/21/23 00:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/20/23 10:06	09/21/23 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130				09/20/23 10:06	09/21/23 00:14	1
1,4-Difluorobenzene (Surr)	83		70 - 130				09/20/23 10:06	09/21/23 00:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00585		0.00401		mg/Kg			09/21/23 00:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/20/23 15:19	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	<50.4	U	50.4		mg/Kg		09/20/23 11:21	09/20/23 15:19	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		09/20/23 11:21	09/20/23 15:19	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-33440-7

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 11:21	09/20/23 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				09/20/23 11:21	09/20/23 15:19	1
o-Terphenyl	139	S1+	70 - 130				09/20/23 11:21	09/20/23 15:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.96		mg/Kg			09/20/23 22:43	1

Client Sample ID: T-2 (2')

Lab Sample ID: 880-33440-8

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 00:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 00:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 00:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/21/23 00:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 00:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/21/23 00:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				09/20/23 10:06	09/21/23 00:34	1
1,4-Difluorobenzene (Surr)	74		70 - 130				09/20/23 10:06	09/21/23 00:34	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			09/21/23 00:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.6		50.5		mg/Kg			09/20/23 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	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 15:42	1
Diesel Range Organics (Over C10-C28)	51.6		50.5		mg/Kg		09/20/23 11:21	09/20/23 15:42	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				09/20/23 11:21	09/20/23 15:42	1
o-Terphenyl	167	S1+	70 - 130				09/20/23 11:21	09/20/23 15:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.2		4.99		mg/Kg			09/20/23 22:50	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-2 (3')

Lab Sample ID: 880-33440-9

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 00:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 00:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 00:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/21/23 00:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 00:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/21/23 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/20/23 10:06	09/21/23 00:55	1
1,4-Difluorobenzene (Surr)	52	S1-	70 - 130	09/20/23 10:06	09/21/23 00:55	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			09/21/23 00:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/20/23 16:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/20/23 11:21	09/20/23 16:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/23 11:21	09/20/23 16:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/23 11:21	09/20/23 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130	09/20/23 11:21	09/20/23 16:03	1
o-Terphenyl	183	S1+	70 - 130	09/20/23 11:21	09/20/23 16:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		4.98		mg/Kg			09/20/23 22:57	1

Client Sample ID: T-2 (4')

Lab Sample ID: 880-33440-10

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 01:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/21/23 01:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/21/23 01:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:06	09/21/23 01:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/21/23 01:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:06	09/21/23 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	09/20/23 10:06	09/21/23 01:15	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130	09/20/23 10:06	09/21/23 01:15	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-2 (4')

Lab Sample ID: 880-33440-10

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 01:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/20/23 16:25	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		09/20/23 11:21	09/20/23 16:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/23 11:21	09/20/23 16:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/23 11:21	09/20/23 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				09/20/23 11:21	09/20/23 16:25	1
o-Terphenyl	165	S1+	70 - 130				09/20/23 11:21	09/20/23 16:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.7		5.01		mg/Kg			09/20/23 23:03	1

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-33440-11

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 02:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:06	09/21/23 02:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:06	09/21/23 02:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/20/23 10:06	09/21/23 02:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:06	09/21/23 02:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/20/23 10:06	09/21/23 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				09/20/23 10:06	09/21/23 02:37	1
1,4-Difluorobenzene (Surr)	72		70 - 130				09/20/23 10:06	09/21/23 02:37	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			09/21/23 02:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	127		49.6		mg/Kg			09/20/23 17:12	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	<49.6	U	49.6		mg/Kg		09/20/23 11:21	09/20/23 17:12	1
Diesel Range Organics (Over C10-C28)	127		49.6		mg/Kg		09/20/23 11:21	09/20/23 17:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-33440-11

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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)	<49.6	U	49.6		mg/Kg		09/20/23 11:21	09/20/23 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130				09/20/23 11:21	09/20/23 17:12	1
o-Terphenyl	155	S1+	70 - 130				09/20/23 11:21	09/20/23 17:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.5	F1	5.05		mg/Kg			09/20/23 23:10	1

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-33440-12

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 02:57	1
Toluene	0.00524		0.00201		mg/Kg		09/20/23 10:06	09/21/23 02:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:06	09/21/23 02:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/20/23 10:06	09/21/23 02:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:06	09/21/23 02:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/20/23 10:06	09/21/23 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130				09/20/23 10:06	09/21/23 02:57	1
1,4-Difluorobenzene (Surr)	74		70 - 130				09/20/23 10:06	09/21/23 02:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00524		0.00402		mg/Kg			09/21/23 02:57	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			09/20/23 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		09/20/23 11:21	09/20/23 17:34	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		09/20/23 11:21	09/20/23 17:34	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		09/20/23 11:21	09/20/23 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				09/20/23 11:21	09/20/23 17:34	1
o-Terphenyl	130		70 - 130				09/20/23 11:21	09/20/23 17:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.1		4.97		mg/Kg			09/20/23 23:30	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-3 (2')

Lab Sample ID: 880-33440-13

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 03:18	1
Toluene	0.00246		0.00202		mg/Kg		09/20/23 10:06	09/21/23 03:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:06	09/21/23 03:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/20/23 10:06	09/21/23 03:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:06	09/21/23 03:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/20/23 10:06	09/21/23 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	09/20/23 10:06	09/21/23 03:18	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/20/23 10:06	09/21/23 03:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/21/23 03:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			09/20/23 17:56	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	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 17:56	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 17:56	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130	09/20/23 11:21	09/20/23 17:56	1
o-Terphenyl	143	S1+	70 - 130	09/20/23 11:21	09/20/23 17:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.4		4.99		mg/Kg			09/20/23 23:37	1

Client Sample ID: T-3 (3')

Lab Sample ID: 880-33440-14

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 03:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 03:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 03:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/21/23 03:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 03:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/21/23 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	09/20/23 10:06	09/21/23 03:38	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/20/23 10:06	09/21/23 03:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-3 (3')

Lab Sample ID: 880-33440-14

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 03:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/20/23 18:19	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	<50.4	U	50.4		mg/Kg		09/20/23 11:21	09/20/23 18:19	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		09/20/23 11:21	09/20/23 18:19	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		09/20/23 11:21	09/20/23 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				09/20/23 11:21	09/20/23 18:19	1
o-Terphenyl	122		70 - 130				09/20/23 11:21	09/20/23 18:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.5		4.99		mg/Kg			09/20/23 23:57	1

Client Sample ID: T-3 (4')

Lab Sample ID: 880-33440-15

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 03:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 03:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 03:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/21/23 03:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 03:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/21/23 03:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				09/20/23 10:06	09/21/23 03:59	1
1,4-Difluorobenzene (Surr)	91		70 - 130				09/20/23 10:06	09/21/23 03:59	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			09/21/23 03:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/20/23 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/20/23 11:21	09/20/23 18:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/23 11:21	09/20/23 18:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-3 (4')

Lab Sample ID: 880-33440-15

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/23 11:21	09/20/23 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	174	S1+	70 - 130				09/20/23 11:21	09/20/23 18:41	1
o-Terphenyl	182	S1+	70 - 130				09/20/23 11:21	09/20/23 18:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.3		4.99		mg/Kg			09/21/23 00:03	1

Client Sample ID: T-4 (0-1')

Lab Sample ID: 880-33440-16

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 04:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:06	09/21/23 04:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:06	09/21/23 04:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/20/23 10:06	09/21/23 04:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:06	09/21/23 04:19	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/20/23 10:06	09/21/23 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				09/20/23 10:06	09/21/23 04:19	1
1,4-Difluorobenzene (Surr)	84		70 - 130				09/20/23 10:06	09/21/23 04:19	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			09/21/23 04:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	135		49.7		mg/Kg			09/20/23 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/20/23 11:21	09/20/23 19:03	1
Diesel Range Organics (Over C10-C28)	135		49.7		mg/Kg		09/20/23 11:21	09/20/23 19:03	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/20/23 11:21	09/20/23 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130				09/20/23 11:21	09/20/23 19:03	1
o-Terphenyl	156	S1+	70 - 130				09/20/23 11:21	09/20/23 19:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.02		mg/Kg			09/21/23 00:10	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-4 (1.5')

Lab Sample ID: 880-33440-17

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 04:40	1
Toluene	0.00466		0.00200		mg/Kg		09/20/23 10:06	09/21/23 04:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/21/23 04:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:06	09/21/23 04:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/21/23 04:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:06	09/21/23 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	09/20/23 10:06	09/21/23 04:40	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/20/23 10:06	09/21/23 04:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00466		0.00399		mg/Kg			09/21/23 04:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			09/20/23 19:25	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	<49.5	U	49.5		mg/Kg		09/20/23 11:21	09/20/23 19:25	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		09/20/23 11:21	09/20/23 19:25	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		09/20/23 11:21	09/20/23 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	09/20/23 11:21	09/20/23 19:25	1
o-Terphenyl	153	S1+	70 - 130	09/20/23 11:21	09/20/23 19:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		5.03		mg/Kg			09/21/23 00:17	1

Client Sample ID: T-4 (2')

Lab Sample ID: 880-33440-18

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 05:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:06	09/21/23 05:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:06	09/21/23 05:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/20/23 10:06	09/21/23 05:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:06	09/21/23 05:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/20/23 10:06	09/21/23 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	09/20/23 10:06	09/21/23 05:00	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/20/23 10:06	09/21/23 05:00	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-4 (2')

Lab Sample ID: 880-33440-18

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 05:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/20/23 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/20/23 11:21	09/20/23 19:47	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/20/23 11:21	09/20/23 19:47	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/20/23 11:21	09/20/23 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130				09/20/23 11:21	09/20/23 19:47	1
o-Terphenyl	160	S1+	70 - 130				09/20/23 11:21	09/20/23 19:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.04		mg/Kg			09/21/23 00:24	1

Client Sample ID: T-4 (3')

Lab Sample ID: 880-33440-19

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 05:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:06	09/21/23 05:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:06	09/21/23 05:20	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/20/23 10:06	09/21/23 05:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:06	09/21/23 05:20	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/20/23 10:06	09/21/23 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				09/20/23 10:06	09/21/23 05:20	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/20/23 10:06	09/21/23 05:20	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			09/21/23 05:20	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			09/20/23 20:08	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		09/20/23 11:21	09/20/23 20:08	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/20/23 11:21	09/20/23 20:08	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-4 (3')

Lab Sample ID: 880-33440-19

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 11:21	09/20/23 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				09/20/23 11:21	09/20/23 20:08	1
o-Terphenyl	153	S1+	70 - 130				09/20/23 11:21	09/20/23 20:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.7		4.97		mg/Kg			09/21/23 00:30	1

Client Sample ID: T-4 (4')

Lab Sample ID: 880-33440-20

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:06	09/21/23 05:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 05:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 05:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/21/23 05:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:06	09/21/23 05:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:06	09/21/23 05:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130				09/20/23 10:06	09/21/23 05:41	1
1,4-Difluorobenzene (Surr)	87		70 - 130				09/20/23 10:06	09/21/23 05:41	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			09/21/23 05:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/20/23 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/20/23 11:21	09/20/23 20:31	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/20/23 11:21	09/20/23 20:31	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/20/23 11:21	09/20/23 20:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				09/20/23 11:21	09/20/23 20:31	1
o-Terphenyl	129		70 - 130				09/20/23 11:21	09/20/23 20:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.5		4.96		mg/Kg			09/21/23 00:37	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-5 (0-1')

Lab Sample ID: 880-33440-21

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 12:20	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		09/20/23 10:09	09/21/23 12:20	1
Ethylbenzene	<0.00199	U F2 F1	0.00199		mg/Kg		09/20/23 10:09	09/21/23 12:20	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398		mg/Kg		09/20/23 10:09	09/21/23 12:20	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		09/20/23 10:09	09/21/23 12:20	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		09/20/23 10:09	09/21/23 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	09/20/23 10:09	09/21/23 12:20	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/20/23 10:09	09/21/23 12:20	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			09/21/23 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2420		49.6		mg/Kg			09/20/23 14:24	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	<49.6	U	49.6		mg/Kg		09/20/23 11:24	09/20/23 14:24	1
Diesel Range Organics (Over C10-C28)	2020		49.6		mg/Kg		09/20/23 11:24	09/20/23 14:24	1
Oil Range Organics (Over C28-C36)	395		49.6		mg/Kg		09/20/23 11:24	09/20/23 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	09/20/23 11:24	09/20/23 14:24	1
o-Terphenyl	107		70 - 130	09/20/23 11:24	09/20/23 14:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.3		5.04		mg/Kg			09/21/23 11:11	1

Client Sample ID: T-5 (1.5')

Lab Sample ID: 880-33440-22

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 12:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 12:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 12:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 12:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 12:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/20/23 10:09	09/21/23 12:45	1
1,4-Difluorobenzene (Surr)	111		70 - 130	09/20/23 10:09	09/21/23 12:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-5 (1.5')

Lab Sample ID: 880-33440-22

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.5		50.3		mg/Kg			09/20/23 12:21	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	<50.3	U	50.3		mg/Kg		09/20/23 11:24	09/20/23 12:21	1
Diesel Range Organics (Over C10-C28)	70.5	F1	50.3		mg/Kg		09/20/23 11:24	09/20/23 12:21	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/20/23 11:24	09/20/23 12:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				09/20/23 11:24	09/20/23 12:21	1
o-Terphenyl	106		70 - 130				09/20/23 11:24	09/20/23 12:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		5.02		mg/Kg			09/21/23 11:28	1

Client Sample ID: T-5 (2')

Lab Sample ID: 880-33440-23

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 13:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 13:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 13:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:09	09/21/23 13:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 13:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:09	09/21/23 13:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				09/20/23 10:09	09/21/23 13:11	1
1,4-Difluorobenzene (Surr)	104		70 - 130				09/20/23 10:09	09/21/23 13:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/21/23 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	141		50.1		mg/Kg			09/20/23 14:48	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	<50.1	U	50.1		mg/Kg		09/20/23 11:24	09/20/23 14:48	1
Diesel Range Organics (Over C10-C28)	89.6		50.1		mg/Kg		09/20/23 11:24	09/20/23 14:48	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-5 (2')

Lab Sample ID: 880-33440-23

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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)	51.8		50.1		mg/Kg		09/20/23 11:24	09/20/23 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				09/20/23 11:24	09/20/23 14:48	1
o-Terphenyl	109		70 - 130				09/20/23 11:24	09/20/23 14:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.05		mg/Kg			09/21/23 11:34	1

Client Sample ID: T-5 (3')

Lab Sample ID: 880-33440-24

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 13:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 13:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 13:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/20/23 10:09	09/21/23 13:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 13:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/20/23 10:09	09/21/23 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				09/20/23 10:09	09/21/23 13:37	1
1,4-Difluorobenzene (Surr)	121		70 - 130				09/20/23 10:09	09/21/23 13:37	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			09/21/23 13:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/20/23 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		09/20/23 11:24	09/20/23 15:13	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		09/20/23 11:24	09/20/23 15:13	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		09/20/23 11:24	09/20/23 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				09/20/23 11:24	09/20/23 15:13	1
o-Terphenyl	117		70 - 130				09/20/23 11:24	09/20/23 15:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.9		5.04		mg/Kg			09/21/23 11:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-5 (4')

Lab Sample ID: 880-33440-25

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 14:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 14:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 14:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 14:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 14:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/20/23 10:09	09/21/23 14:03	1
1,4-Difluorobenzene (Surr)	122		70 - 130	09/20/23 10:09	09/21/23 14:03	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			09/21/23 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/20/23 15:39	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	<49.7	U	49.7		mg/Kg		09/20/23 11:24	09/20/23 15:39	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/20/23 11:24	09/20/23 15:39	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/20/23 11:24	09/20/23 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	09/20/23 11:24	09/20/23 15:39	1
o-Terphenyl	117		70 - 130	09/20/23 11:24	09/20/23 15:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.6		5.00		mg/Kg			09/21/23 11:46	1

Client Sample ID: T-6 (0-1')

Lab Sample ID: 880-33440-26

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 14:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 14:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 14:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 14:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 14:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	09/20/23 10:09	09/21/23 14:28	1
1,4-Difluorobenzene (Surr)	112		70 - 130	09/20/23 10:09	09/21/23 14:28	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-6 (0-1')

Lab Sample ID: 880-33440-26

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 14:28	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			09/20/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/20/23 11:24	09/20/23 16:02	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/20/23 11:24	09/20/23 16:02	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/20/23 11:24	09/20/23 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				09/20/23 11:24	09/20/23 16:02	1
o-Terphenyl	111		70 - 130				09/20/23 11:24	09/20/23 16:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		4.99		mg/Kg			09/21/23 12:04	1

Client Sample ID: T-6 (1.5')

Lab Sample ID: 880-33440-27

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 14:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 14:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 14:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:09	09/21/23 14:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 14:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:09	09/21/23 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				09/20/23 10:09	09/21/23 14:54	1
1,4-Difluorobenzene (Surr)	110		70 - 130				09/20/23 10:09	09/21/23 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			09/21/23 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	<49.9	U	49.9		mg/Kg			09/20/23 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	<49.9	U	49.9		mg/Kg		09/20/23 11:24	09/20/23 16:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/23 11:24	09/20/23 16:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-6 (1.5')

Lab Sample ID: 880-33440-27

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 11:24	09/20/23 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				09/20/23 11:24	09/20/23 16:26	1
o-Terphenyl	113		70 - 130				09/20/23 11:24	09/20/23 16:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.98		mg/Kg			09/21/23 12:09	1

Client Sample ID: T-6 (2')

Lab Sample ID: 880-33440-28

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 15:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:09	09/21/23 15:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:09	09/21/23 15:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/20/23 10:09	09/21/23 15:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:09	09/21/23 15:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/20/23 10:09	09/21/23 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				09/20/23 10:09	09/21/23 15:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130				09/20/23 10:09	09/21/23 15:20	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			09/21/23 15:20	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			09/20/23 16:50	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		09/20/23 11:24	09/20/23 16:50	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/20/23 11:24	09/20/23 16:50	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/20/23 11:24	09/20/23 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				09/20/23 11:24	09/20/23 16:50	1
o-Terphenyl	102		70 - 130				09/20/23 11:24	09/20/23 16:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.9		5.02		mg/Kg			09/21/23 12:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-6 (3')

Lab Sample ID: 880-33440-29

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 15:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 15:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 15:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/20/23 10:09	09/21/23 15:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 15:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/20/23 10:09	09/21/23 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/20/23 10:09	09/21/23 15:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/20/23 10:09	09/21/23 15:45	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			09/21/23 15:45	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			09/20/23 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		09/20/23 11:24	09/20/23 17:14	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/20/23 11:24	09/20/23 17:14	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/20/23 11:24	09/20/23 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	09/20/23 11:24	09/20/23 17:14	1
o-Terphenyl	106		70 - 130	09/20/23 11:24	09/20/23 17:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.0		5.00		mg/Kg			09/21/23 12:21	1

Client Sample ID: T-6 (4')

Lab Sample ID: 880-33440-30

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 16:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 16:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 16:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 16:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 16:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	09/20/23 10:09	09/21/23 16:11	1
1,4-Difluorobenzene (Surr)	130		70 - 130	09/20/23 10:09	09/21/23 16:11	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-6 (4')

Lab Sample ID: 880-33440-30

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 16:11	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			09/20/23 17:38	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		09/20/23 11:24	09/20/23 17:38	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		09/20/23 11:24	09/20/23 17:38	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/20/23 11:24	09/20/23 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				09/20/23 11:24	09/20/23 17:38	1
o-Terphenyl	107		70 - 130				09/20/23 11:24	09/20/23 17:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.00		mg/Kg			09/21/23 12:27	1

Client Sample ID: T-7 (0-1')

Lab Sample ID: 880-33440-31

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 17:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 17:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 17:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 17:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 17:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				09/20/23 10:09	09/21/23 17:53	1
1,4-Difluorobenzene (Surr)	111		70 - 130				09/20/23 10:09	09/21/23 17:53	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			09/21/23 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			09/20/23 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		09/20/23 11:24	09/20/23 18:24	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/20/23 11:24	09/20/23 18:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-7 (0-1')

Lab Sample ID: 880-33440-31

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 11:24	09/20/23 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				09/20/23 11:24	09/20/23 18:24	1
o-Terphenyl	101		70 - 130				09/20/23 11:24	09/20/23 18:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116	F1	5.03		mg/Kg			09/21/23 12:33	1

Client Sample ID: T-7 (1.5')

Lab Sample ID: 880-33440-32

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 18:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 18:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 18:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:09	09/21/23 18:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 18:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:09	09/21/23 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				09/20/23 10:09	09/21/23 18:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130				09/20/23 10:09	09/21/23 18:19	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			09/21/23 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/20/23 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/20/23 11:24	09/20/23 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/23 11:24	09/20/23 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/23 11:24	09/20/23 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				09/20/23 11:24	09/20/23 18:47	1
o-Terphenyl	105		70 - 130				09/20/23 11:24	09/20/23 18:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.97		mg/Kg			09/21/23 12:50	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-7 (2')

Lab Sample ID: 880-33440-33

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 18:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 18:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 18:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 18:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 18:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/20/23 10:09	09/21/23 18:44	1
1,4-Difluorobenzene (Surr)	118		70 - 130	09/20/23 10:09	09/21/23 18:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/21/23 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/20/23 19:10	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	<49.6	U	49.6		mg/Kg		09/20/23 11:24	09/20/23 19:10	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/20/23 11:24	09/20/23 19:10	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/20/23 11:24	09/20/23 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	09/20/23 11:24	09/20/23 19:10	1
o-Terphenyl	105		70 - 130	09/20/23 11:24	09/20/23 19:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.2		4.95		mg/Kg			09/21/23 12:56	1

Client Sample ID: T-7 (3')

Lab Sample ID: 880-33440-34

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 19:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 19:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 19:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 19:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 19:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/20/23 10:09	09/21/23 19:09	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/20/23 10:09	09/21/23 19:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-7 (3')

Lab Sample ID: 880-33440-34

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			09/20/23 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		09/20/23 11:24	09/20/23 19:34	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		09/20/23 11:24	09/20/23 19:34	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		09/20/23 11:24	09/20/23 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				09/20/23 11:24	09/20/23 19:34	1
o-Terphenyl	115		70 - 130				09/20/23 11:24	09/20/23 19:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.0		4.95		mg/Kg			09/21/23 13:14	1

Client Sample ID: T-7 (4')

Lab Sample ID: 880-33440-35

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 19:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 19:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 19:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/20/23 10:09	09/21/23 19:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 19:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/20/23 10:09	09/21/23 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				09/20/23 10:09	09/21/23 19:35	1
1,4-Difluorobenzene (Surr)	88		70 - 130				09/20/23 10:09	09/21/23 19:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/21/23 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	<49.6	U	49.6		mg/Kg			09/20/23 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/20/23 11:24	09/20/23 19:58	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/20/23 11:24	09/20/23 19:58	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-7 (4')

Lab Sample ID: 880-33440-35

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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)	<49.6	U	49.6		mg/Kg		09/20/23 11:24	09/20/23 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				09/20/23 11:24	09/20/23 19:58	1
o-Terphenyl	99		70 - 130				09/20/23 11:24	09/20/23 19:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.96		mg/Kg			09/21/23 13:19	1

Client Sample ID: T-8 (0-1')

Lab Sample ID: 880-33440-36

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 20:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 20:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 20:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:09	09/21/23 20:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 20:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:09	09/21/23 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/20/23 10:09	09/21/23 20:00	1
1,4-Difluorobenzene (Surr)	94		70 - 130				09/20/23 10:09	09/21/23 20:00	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			09/21/23 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	739		49.8		mg/Kg			09/20/23 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	<49.8	U	49.8		mg/Kg		09/20/23 11:24	09/20/23 20:24	1
Diesel Range Organics (Over C10-C28)	605		49.8		mg/Kg		09/20/23 11:24	09/20/23 20:24	1
Oil Range Organics (Over C28-C36)	134		49.8		mg/Kg		09/20/23 11:24	09/20/23 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				09/20/23 11:24	09/20/23 20:24	1
o-Terphenyl	104		70 - 130				09/20/23 11:24	09/20/23 20:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.2		5.01		mg/Kg			09/21/23 13:25	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-8 (1.5')

Lab Sample ID: 880-33440-37

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 20:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 20:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 20:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 20:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 20:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/20/23 10:09	09/21/23 20:25	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/20/23 10:09	09/21/23 20:25	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			09/21/23 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	734		50.2		mg/Kg			09/20/23 20:52	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	<50.2	U	50.2		mg/Kg		09/20/23 11:24	09/20/23 20:52	1
Diesel Range Organics (Over C10-C28)	590		50.2		mg/Kg		09/20/23 11:24	09/20/23 20:52	1
Oil Range Organics (Over C28-C36)	144		50.2		mg/Kg		09/20/23 11:24	09/20/23 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	09/20/23 11:24	09/20/23 20:52	1
o-Terphenyl	101		70 - 130	09/20/23 11:24	09/20/23 20:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.4		4.99		mg/Kg			09/21/23 13:31	1

Client Sample ID: T-8 (2')

Lab Sample ID: 880-33440-38

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 20:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 20:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 20:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 20:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:09	09/21/23 20:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:09	09/21/23 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	09/20/23 10:09	09/21/23 20:50	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/20/23 10:09	09/21/23 20:50	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-8 (2')

Lab Sample ID: 880-33440-38

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	384		50.4		mg/Kg			09/20/23 21:18	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	<50.4	U	50.4		mg/Kg		09/20/23 11:24	09/20/23 21:18	1
Diesel Range Organics (Over C10-C28)	300		50.4		mg/Kg		09/20/23 11:24	09/20/23 21:18	1
Oil Range Organics (Over C28-C36)	84.1		50.4		mg/Kg		09/20/23 11:24	09/20/23 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				09/20/23 11:24	09/20/23 21:18	1
o-Terphenyl	94		70 - 130				09/20/23 11:24	09/20/23 21:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.7		4.98		mg/Kg			09/21/23 13:37	1

Client Sample ID: T-8 (3')

Lab Sample ID: 880-33440-39

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 21:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 21:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 21:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/20/23 10:09	09/21/23 21:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 21:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/20/23 10:09	09/21/23 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				09/20/23 10:09	09/21/23 21:16	1
1,4-Difluorobenzene (Surr)	94		70 - 130				09/20/23 10:09	09/21/23 21:16	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			09/21/23 21:16	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			09/20/23 21:39	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		09/20/23 11:24	09/20/23 21:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-8 (3')

Lab Sample ID: 880-33440-39

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		09/20/23 11:24	09/20/23 21:39	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		09/20/23 11:24	09/20/23 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				09/20/23 11:24	09/20/23 21:39	1
o-Terphenyl	102		70 - 130				09/20/23 11:24	09/20/23 21:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.3		5.04		mg/Kg			09/21/23 13:43	1

Client Sample ID: T-8 (4')

Lab Sample ID: 880-33440-40

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:09	09/21/23 21:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:09	09/21/23 21:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:09	09/21/23 21:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/20/23 10:09	09/21/23 21:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:09	09/21/23 21:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/20/23 10:09	09/21/23 21:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				09/20/23 10:09	09/21/23 21:41	1
1,4-Difluorobenzene (Surr)	118		70 - 130				09/20/23 10:09	09/21/23 21:41	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			09/21/23 21:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			09/20/23 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		09/20/23 11:24	09/20/23 22:00	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		09/20/23 11:24	09/20/23 22:00	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		09/20/23 11:24	09/20/23 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				09/20/23 11:24	09/20/23 22:00	1
o-Terphenyl	106		70 - 130				09/20/23 11:24	09/20/23 22:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.4		4.96		mg/Kg			09/21/23 13:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-9 (0-1')

Lab Sample ID: 880-33440-41

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U	0.0199		mg/Kg		09/22/23 11:10	09/23/23 05:38	10
Toluene	<0.0199	U	0.0199		mg/Kg		09/22/23 11:10	09/23/23 05:38	10
Ethylbenzene	<0.0199	U	0.0199		mg/Kg		09/22/23 11:10	09/23/23 05:38	10
m-Xylene & p-Xylene	<0.0398	U	0.0398		mg/Kg		09/22/23 11:10	09/23/23 05:38	10
o-Xylene	<0.0199	U	0.0199		mg/Kg		09/22/23 11:10	09/23/23 05:38	10
Xylenes, Total	<0.0398	U	0.0398		mg/Kg		09/22/23 11:10	09/23/23 05:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/22/23 11:10	09/23/23 05:38	10
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	09/22/23 11:10	09/23/23 05:38	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0398	U	0.0398		mg/Kg			09/23/23 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	655		50.1		mg/Kg			09/20/23 14:24	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		09/20/23 11:26	09/20/23 14:24	1
Diesel Range Organics (Over C10-C28)	655		50.1		mg/Kg		09/20/23 11:26	09/20/23 14:24	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/20/23 11:26	09/20/23 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	09/20/23 11:26	09/20/23 14:24	1
o-Terphenyl	100		70 - 130	09/20/23 11:26	09/20/23 14:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.6		5.05		mg/Kg			09/21/23 11:23	1

Client Sample ID: T-9 (1.5')

Lab Sample ID: 880-33440-42

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 11:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:13	09/21/23 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 11:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:13	09/21/23 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	09/20/23 10:13	09/21/23 11:54	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/20/23 10:13	09/21/23 11:54	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-9 (1.5')

Lab Sample ID: 880-33440-42

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	248		49.7		mg/Kg			09/20/23 12:21	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	<49.7	U	49.7		mg/Kg		09/20/23 11:26	09/20/23 12:21	1
Diesel Range Organics (Over C10-C28)	248	F1	49.7		mg/Kg		09/20/23 11:26	09/20/23 12:21	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/20/23 11:26	09/20/23 12:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				09/20/23 11:26	09/20/23 12:21	1
o-Terphenyl	107		70 - 130				09/20/23 11:26	09/20/23 12:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.3		4.98		mg/Kg			09/21/23 11:43	1

Client Sample ID: T-9 (2')

Lab Sample ID: 880-33440-43

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 12:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:13	09/21/23 12:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:13	09/21/23 12:14	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/20/23 10:13	09/21/23 12:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:13	09/21/23 12:14	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/20/23 10:13	09/21/23 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130				09/20/23 10:13	09/21/23 12:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130				09/20/23 10:13	09/21/23 12:14	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			09/21/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	220		49.6		mg/Kg			09/20/23 14:48	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	<49.6	U	49.6		mg/Kg		09/20/23 11:26	09/20/23 14:48	1
Diesel Range Organics (Over C10-C28)	220		49.6		mg/Kg		09/20/23 11:26	09/20/23 14:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-9 (2')

Lab Sample ID: 880-33440-43

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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)	<49.6	U	49.6		mg/Kg		09/20/23 11:26	09/20/23 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/20/23 11:26	09/20/23 14:48	1
o-Terphenyl	110		70 - 130				09/20/23 11:26	09/20/23 14:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.9		5.01		mg/Kg			09/21/23 11:49	1

Client Sample ID: T-9 (3')

Lab Sample ID: 880-33440-44

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 12:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 12:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 12:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 12:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 12:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 12:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				09/20/23 10:13	09/21/23 12:34	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				09/20/23 10:13	09/21/23 12:34	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			09/21/23 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/20/23 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	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 15:13	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 15:13	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				09/20/23 11:26	09/20/23 15:13	1
o-Terphenyl	104		70 - 130				09/20/23 11:26	09/20/23 15:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.4		4.95		mg/Kg			09/21/23 11:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-9 (4')

Lab Sample ID: 880-33440-45

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 12:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 12:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 12:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 12:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 12:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	09/20/23 10:13	09/21/23 12:55	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/20/23 10:13	09/21/23 12:55	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			09/21/23 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.8		50.5		mg/Kg			09/20/23 15:39	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		09/20/23 11:26	09/20/23 15:39	1
Diesel Range Organics (Over C10-C28)	98.8		50.5		mg/Kg		09/20/23 11:26	09/20/23 15:39	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/20/23 11:26	09/20/23 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	09/20/23 11:26	09/20/23 15:39	1
o-Terphenyl	109		70 - 130	09/20/23 11:26	09/20/23 15:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.0		5.02		mg/Kg			09/21/23 12:03	1

Client Sample ID: T-10 (0-1')

Lab Sample ID: 880-33440-46

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 13:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 13:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 13:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:13	09/21/23 13:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 13:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:13	09/21/23 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/20/23 10:13	09/21/23 13:15	1
1,4-Difluorobenzene (Surr)	74		70 - 130	09/20/23 10:13	09/21/23 13:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-10 (0-1')

Lab Sample ID: 880-33440-46

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	574		50.1		mg/Kg			09/20/23 16:02	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	<50.1	U	50.1		mg/Kg		09/20/23 11:26	09/20/23 16:02	1
Diesel Range Organics (Over C10-C28)	574		50.1		mg/Kg		09/20/23 11:26	09/20/23 16:02	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/20/23 11:26	09/20/23 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				09/20/23 11:26	09/20/23 16:02	1
o-Terphenyl	108		70 - 130				09/20/23 11:26	09/20/23 16:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.4		5.00		mg/Kg			09/21/23 12:23	1

Client Sample ID: T-10 (1.5')

Lab Sample ID: 880-33440-47

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 13:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 13:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 13:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/20/23 10:13	09/21/23 13:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 13:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/20/23 10:13	09/21/23 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				09/20/23 10:13	09/21/23 13:36	1
1,4-Difluorobenzene (Surr)	100		70 - 130				09/20/23 10:13	09/21/23 13:36	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			09/21/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1140		49.7		mg/Kg			09/20/23 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	<49.7	U	49.7		mg/Kg		09/20/23 11:26	09/20/23 16:26	1
Diesel Range Organics (Over C10-C28)	1140		49.7		mg/Kg		09/20/23 11:26	09/20/23 16:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-10 (1.5')

Lab Sample ID: 880-33440-47

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 11:26	09/20/23 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				09/20/23 11:26	09/20/23 16:26	1
o-Terphenyl	108		70 - 130				09/20/23 11:26	09/20/23 16:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.8		4.97		mg/Kg			09/21/23 12:29	1

Client Sample ID: T-10 (2')

Lab Sample ID: 880-33440-48

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 13:56	1
Toluene	0.00322		0.00202		mg/Kg		09/20/23 10:13	09/21/23 13:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:13	09/21/23 13:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/20/23 10:13	09/21/23 13:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/20/23 10:13	09/21/23 13:56	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/20/23 10:13	09/21/23 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				09/20/23 10:13	09/21/23 13:56	1
1,4-Difluorobenzene (Surr)	105		70 - 130				09/20/23 10:13	09/21/23 13:56	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			09/21/23 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	465		49.6		mg/Kg			09/20/23 16:50	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	<49.6	U	49.6		mg/Kg		09/20/23 11:26	09/20/23 16:50	1
Diesel Range Organics (Over C10-C28)	465		49.6		mg/Kg		09/20/23 11:26	09/20/23 16:50	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/20/23 11:26	09/20/23 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				09/20/23 11:26	09/20/23 16:50	1
o-Terphenyl	114		70 - 130				09/20/23 11:26	09/20/23 16:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.5		4.96		mg/Kg			09/21/23 12:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-10 (3')

Lab Sample ID: 880-33440-49

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 14:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 14:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 14:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 14:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 14:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/20/23 10:13	09/21/23 14:17	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/20/23 10:13	09/21/23 14:17	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			09/21/23 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/20/23 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/20/23 11:26	09/20/23 17:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/23 11:26	09/20/23 17:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/23 11:26	09/20/23 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	09/20/23 11:26	09/20/23 17:14	1
o-Terphenyl	107		70 - 130	09/20/23 11:26	09/20/23 17:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.7		5.00		mg/Kg			09/21/23 12:43	1

Client Sample ID: T-10 (4')

Lab Sample ID: 880-33440-50

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 14:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 14:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 14:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 14:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 14:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	09/20/23 10:13	09/21/23 14:37	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/20/23 10:13	09/21/23 14:37	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-10 (4')

Lab Sample ID: 880-33440-50

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/20/23 17:38	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	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 17:38	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 17:38	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/20/23 11:26	09/20/23 17:38	1
o-Terphenyl	104		70 - 130				09/20/23 11:26	09/20/23 17:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.5		4.98		mg/Kg			09/21/23 12:50	1

Client Sample ID: T-11 (0-1')

Lab Sample ID: 880-33440-51

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 16:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 16:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 16:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:13	09/21/23 16:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 16:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:13	09/21/23 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				09/20/23 10:13	09/21/23 16:00	1
1,4-Difluorobenzene (Surr)	72		70 - 130				09/20/23 10:13	09/21/23 16:00	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			09/21/23 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			09/20/23 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		09/20/23 11:26	09/20/23 18:24	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/20/23 11:26	09/20/23 18:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-11 (0-1')

Lab Sample ID: 880-33440-51

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 11:26	09/20/23 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				09/20/23 11:26	09/20/23 18:24	1
o-Terphenyl	100		70 - 130				09/20/23 11:26	09/20/23 18:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116	F1	4.97		mg/Kg			09/21/23 12:56	1

Client Sample ID: T-11 (1.5')

Lab Sample ID: 880-33440-52

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 16:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:13	09/21/23 16:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:13	09/21/23 16:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/20/23 10:13	09/21/23 16:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:13	09/21/23 16:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/20/23 10:13	09/21/23 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				09/20/23 10:13	09/21/23 16:21	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				09/20/23 10:13	09/21/23 16:21	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			09/21/23 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/20/23 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/20/23 11:26	09/20/23 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/23 11:26	09/20/23 18:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/23 11:26	09/20/23 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				09/20/23 11:26	09/20/23 18:47	1
o-Terphenyl	108		70 - 130				09/20/23 11:26	09/20/23 18:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.8		5.04		mg/Kg			09/21/23 13:16	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-11 (2')

Lab Sample ID: 880-33440-53

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 16:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 16:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 16:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/20/23 10:13	09/21/23 16:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 16:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/20/23 10:13	09/21/23 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	09/20/23 10:13	09/21/23 16:41	1
1,4-Difluorobenzene (Surr)	70		70 - 130	09/20/23 10:13	09/21/23 16:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/21/23 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/20/23 19:10	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	<49.7	U	49.7		mg/Kg		09/20/23 11:26	09/20/23 19:10	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/20/23 11:26	09/20/23 19:10	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/20/23 11:26	09/20/23 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/20/23 11:26	09/20/23 19:10	1
o-Terphenyl	108		70 - 130	09/20/23 11:26	09/20/23 19:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.0		4.99		mg/Kg			09/21/23 13:23	1

Client Sample ID: T-11 (3')

Lab Sample ID: 880-33440-54

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 17:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 17:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 17:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 17:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 17:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	09/20/23 10:13	09/21/23 17:01	1
1,4-Difluorobenzene (Surr)	71		70 - 130	09/20/23 10:13	09/21/23 17:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-11 (3')

Lab Sample ID: 880-33440-54

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/21/23 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/20/23 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/20/23 11:26	09/20/23 19:34	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/20/23 11:26	09/20/23 19:34	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/20/23 11:26	09/20/23 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				09/20/23 11:26	09/20/23 19:34	1
o-Terphenyl	104		70 - 130				09/20/23 11:26	09/20/23 19:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.5		4.98		mg/Kg			09/21/23 13:43	1

Client Sample ID: T-11 (4')

Lab Sample ID: 880-33440-55

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 17:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 17:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 17:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:13	09/21/23 17:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 17:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:13	09/21/23 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				09/20/23 10:13	09/21/23 17:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130				09/20/23 10:13	09/21/23 17:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/21/23 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/20/23 19:58	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		09/20/23 11:26	09/20/23 19:58	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 19:58	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-11 (4')

Lab Sample ID: 880-33440-55

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 11:26	09/20/23 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				09/20/23 11:26	09/20/23 19:58	1
o-Terphenyl	111		70 - 130				09/20/23 11:26	09/20/23 19:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		4.97		mg/Kg			09/21/23 13:50	1

Client Sample ID: T-12 (0-1')

Lab Sample ID: 880-33440-56

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 17:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:13	09/21/23 17:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:13	09/21/23 17:42	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/20/23 10:13	09/21/23 17:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:13	09/21/23 17:42	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/20/23 10:13	09/21/23 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				09/20/23 10:13	09/21/23 17:42	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130				09/20/23 10:13	09/21/23 17:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/21/23 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/20/23 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	<49.8	U	49.8		mg/Kg		09/20/23 11:26	09/20/23 20:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/23 11:26	09/20/23 20:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/23 11:26	09/20/23 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				09/20/23 11:26	09/20/23 20:24	1
o-Terphenyl	103		70 - 130				09/20/23 11:26	09/20/23 20:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.1		4.96		mg/Kg			09/21/23 13:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-12 (1.5')

Lab Sample ID: 880-33440-57

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:13	09/21/23 18:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 18:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 18:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 18:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:13	09/21/23 18:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:13	09/21/23 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	09/20/23 10:13	09/21/23 18:03	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/20/23 10:13	09/21/23 18:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/21/23 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/20/23 20:52	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	<49.6	U	49.6		mg/Kg		09/20/23 11:26	09/20/23 20:52	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/20/23 11:26	09/20/23 20:52	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/20/23 11:26	09/20/23 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	09/20/23 11:26	09/20/23 20:52	1
o-Terphenyl	120		70 - 130	09/20/23 11:26	09/20/23 20:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.96		mg/Kg			09/21/23 14:03	1

Client Sample ID: T-12 (2')

Lab Sample ID: 880-33440-58

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/21/23 12:47	09/22/23 08:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/23 12:47	09/22/23 08:09	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		09/21/23 12:47	09/22/23 08:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/23 12:47	09/22/23 08:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/23 12:47	09/22/23 08:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/23 12:47	09/22/23 08:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/21/23 12:47	09/22/23 08:09	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/21/23 12:47	09/22/23 08:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-12 (2')

Lab Sample ID: 880-33440-58

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/22/23 08:09	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			09/20/23 21:18	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	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 21:18	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 21:18	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				09/20/23 11:26	09/20/23 21:18	1
o-Terphenyl	138	S1+	70 - 130				09/20/23 11:26	09/20/23 21:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.6		5.02		mg/Kg			09/21/23 14:10	1

Client Sample ID: T-12 (3')

Lab Sample ID: 880-33440-59

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/21/23 12:47	09/22/23 08:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/23 12:47	09/22/23 08:59	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		09/21/23 12:47	09/22/23 08:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/23 12:47	09/22/23 08:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/23 12:47	09/22/23 08:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/23 12:47	09/22/23 08:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				09/21/23 12:47	09/22/23 08:59	1
1,4-Difluorobenzene (Surr)	105		70 - 130				09/21/23 12:47	09/22/23 08:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/22/23 08:59	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			09/20/23 21:39	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		09/20/23 11:26	09/20/23 21:39	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/20/23 11:26	09/20/23 21:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-12 (3')

Lab Sample ID: 880-33440-59

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 11:26	09/20/23 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				09/20/23 11:26	09/20/23 21:39	1
o-Terphenyl	117		70 - 130				09/20/23 11:26	09/20/23 21:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		5.04		mg/Kg			09/21/23 14:16	1

Client Sample ID: T-12 (4')

Lab Sample ID: 880-33440-60

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/22/23 11:10	09/23/23 03:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/23 11:10	09/23/23 03:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/23 11:10	09/23/23 03:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/22/23 11:10	09/23/23 03:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/23 11:10	09/23/23 03:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/22/23 11:10	09/23/23 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				09/22/23 11:10	09/23/23 03:36	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130				09/22/23 11:10	09/23/23 03:36	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			09/23/23 03:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/20/23 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 22:00	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 22:00	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/20/23 11:26	09/20/23 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				09/20/23 11:26	09/20/23 22:00	1
o-Terphenyl	121		70 - 130				09/20/23 11:26	09/20/23 22:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.04		mg/Kg			09/21/23 14:23	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-13 (0-1')

Lab Sample ID: 880-33440-61

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 01:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 01:31	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		09/20/23 10:17	09/22/23 01:31	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		09/20/23 10:17	09/22/23 01:31	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		09/20/23 10:17	09/22/23 01:31	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		09/20/23 10:17	09/22/23 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	09/20/23 10:17	09/22/23 01:31	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/20/23 10:17	09/22/23 01:31	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			09/22/23 01:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1200		50.3		mg/Kg			09/20/23 23:25	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		09/20/23 15:17	09/20/23 23:25	1
Diesel Range Organics (Over C10-C28)	1200		50.3		mg/Kg		09/20/23 15:17	09/20/23 23:25	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/20/23 15:17	09/20/23 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	09/20/23 15:17	09/20/23 23:25	1
o-Terphenyl	121		70 - 130	09/20/23 15:17	09/20/23 23:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106	F1	5.04		mg/Kg			09/21/23 18:44	1

Client Sample ID: T-13 (1.5')

Lab Sample ID: 880-33440-62

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 01:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 01:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 01:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:17	09/22/23 01:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 01:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:17	09/22/23 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	09/20/23 10:17	09/22/23 01:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/20/23 10:17	09/22/23 01:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-13 (1.5')

Lab Sample ID: 880-33440-62

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/22/23 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1710		49.6		mg/Kg			09/20/23 23:46	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	<49.6	U	49.6		mg/Kg		09/20/23 15:17	09/20/23 23:46	1
Diesel Range Organics (Over C10-C28)	1710		49.6		mg/Kg		09/20/23 15:17	09/20/23 23:46	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/20/23 15:17	09/20/23 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				09/20/23 15:17	09/20/23 23:46	1
o-Terphenyl	121		70 - 130				09/20/23 15:17	09/20/23 23:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		4.96		mg/Kg			09/21/23 19:03	1

Client Sample ID: T-13 (2')

Lab Sample ID: 880-33440-63

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 02:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 02:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 02:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/20/23 10:17	09/22/23 02:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 02:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/20/23 10:17	09/22/23 02:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				09/20/23 10:17	09/22/23 02:21	1
1,4-Difluorobenzene (Surr)	87		70 - 130				09/20/23 10:17	09/22/23 02:21	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			09/22/23 02:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.4		50.3		mg/Kg			09/20/23 22:21	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	<50.3	U	50.3		mg/Kg		09/20/23 15:17	09/20/23 22:21	1
Diesel Range Organics (Over C10-C28)	57.4		50.3		mg/Kg		09/20/23 15:17	09/20/23 22:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-13 (2')

Lab Sample ID: 880-33440-63

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 15:17	09/20/23 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				09/20/23 15:17	09/20/23 22:21	1
o-Terphenyl	116		70 - 130				09/20/23 15:17	09/20/23 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		4.97		mg/Kg			09/21/23 19:10	1

Client Sample ID: T-13 (3')

Lab Sample ID: 880-33440-64

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 02:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 02:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 02:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 02:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 02:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				09/20/23 10:17	09/22/23 02:47	1
1,4-Difluorobenzene (Surr)	118		70 - 130				09/20/23 10:17	09/22/23 02:47	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			09/22/23 02:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			09/21/23 00:07	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		09/20/23 15:17	09/21/23 00:07	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		09/20/23 15:17	09/21/23 00:07	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		09/20/23 15:17	09/21/23 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130				09/20/23 15:17	09/21/23 00:07	1
o-Terphenyl	121		70 - 130				09/20/23 15:17	09/21/23 00:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.4		5.01		mg/Kg			09/21/23 19:17	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-13 (4')

Lab Sample ID: 880-33440-65

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 03:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 03:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 03:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 03:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 03:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/20/23 10:17	09/22/23 03:12	1
1,4-Difluorobenzene (Surr)	114		70 - 130	09/20/23 10:17	09/22/23 03:12	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			09/22/23 03:12	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			09/21/23 00:28	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	<50.5	U	50.5		mg/Kg		09/20/23 15:17	09/21/23 00:28	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/20/23 15:17	09/21/23 00:28	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/20/23 15:17	09/21/23 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	09/20/23 15:17	09/21/23 00:28	1
o-Terphenyl	124		70 - 130	09/20/23 15:17	09/21/23 00:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.8		5.02		mg/Kg			09/21/23 19:23	1

Client Sample ID: T-14 (0-1')

Lab Sample ID: 880-33440-66

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 03:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 03:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 03:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:17	09/22/23 03:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 03:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:17	09/22/23 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/20/23 10:17	09/22/23 03:37	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/20/23 10:17	09/22/23 03:37	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-14 (0-1')

Lab Sample ID: 880-33440-66

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/22/23 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	178		50.4		mg/Kg			09/21/23 00:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		09/20/23 15:17	09/21/23 00:49	1
Diesel Range Organics (Over C10-C28)	178		50.4		mg/Kg		09/20/23 15:17	09/21/23 00:49	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		09/20/23 15:17	09/21/23 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				09/20/23 15:17	09/21/23 00:49	1
o-Terphenyl	119		70 - 130				09/20/23 15:17	09/21/23 00:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.1		4.99		mg/Kg			09/21/23 19:43	1

Client Sample ID: T-14 (1.5')

Lab Sample ID: 880-33440-67

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 04:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:17	09/22/23 04:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:17	09/22/23 04:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/20/23 10:17	09/22/23 04:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:17	09/22/23 04:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/20/23 10:17	09/22/23 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				09/20/23 10:17	09/22/23 04:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130				09/20/23 10:17	09/22/23 04:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/22/23 04:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/21/23 01:10	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	<49.7	U	49.7		mg/Kg		09/20/23 15:17	09/21/23 01:10	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/20/23 15:17	09/21/23 01:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-14 (1.5')

Lab Sample ID: 880-33440-67

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 15:17	09/21/23 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				09/20/23 15:17	09/21/23 01:10	1
o-Terphenyl	117		70 - 130				09/20/23 15:17	09/21/23 01:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.4		5.05		mg/Kg			09/21/23 19:50	1

Client Sample ID: T-14 (2')

Lab Sample ID: 880-33440-68

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 04:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:17	09/22/23 04:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:17	09/22/23 04:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/20/23 10:17	09/22/23 04:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/20/23 10:17	09/22/23 04:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/20/23 10:17	09/22/23 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				09/20/23 10:17	09/22/23 04:28	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130				09/20/23 10:17	09/22/23 04:28	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			09/22/23 04:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/21/23 01:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/20/23 15:17	09/21/23 01:32	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/20/23 15:17	09/21/23 01:32	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/20/23 15:17	09/21/23 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				09/20/23 15:17	09/21/23 01:32	1
o-Terphenyl	119		70 - 130				09/20/23 15:17	09/21/23 01:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.5		5.01		mg/Kg			09/21/23 19:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-14 (3')

Lab Sample ID: 880-33440-69

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 04:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 04:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 04:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 04:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 04:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/20/23 10:17	09/22/23 04:54	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/20/23 10:17	09/22/23 04:54	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			09/22/23 04:54	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			09/21/23 01:53	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		09/20/23 15:17	09/21/23 01:53	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/20/23 15:17	09/21/23 01:53	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/20/23 15:17	09/21/23 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130	09/20/23 15:17	09/21/23 01:53	1
o-Terphenyl	127		70 - 130	09/20/23 15:17	09/21/23 01:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.96		mg/Kg			09/21/23 20:03	1

Client Sample ID: T-14 (4')

Lab Sample ID: 880-33440-70

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 05:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 05:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 05:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 05:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 05:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/20/23 10:17	09/22/23 05:19	1
1,4-Difluorobenzene (Surr)	125		70 - 130	09/20/23 10:17	09/22/23 05:19	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-14 (4')

Lab Sample ID: 880-33440-70

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/22/23 05:19	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			09/21/23 02:14	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	<50.5	U	50.5		mg/Kg		09/20/23 15:17	09/21/23 02:14	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/20/23 15:17	09/21/23 02:14	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/20/23 15:17	09/21/23 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				09/20/23 15:17	09/21/23 02:14	1
o-Terphenyl	128		70 - 130				09/20/23 15:17	09/21/23 02:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		4.98		mg/Kg			09/21/23 20:10	1

Client Sample ID: T-15 (0-1')

Lab Sample ID: 880-33440-71

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 07:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 07:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 07:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/23 10:17	09/22/23 07:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 07:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/23 10:17	09/22/23 07:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				09/20/23 10:17	09/22/23 07:03	1
1,4-Difluorobenzene (Surr)	113		70 - 130				09/20/23 10:17	09/22/23 07:03	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			09/22/23 07:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	307		50.4		mg/Kg			09/21/23 02:56	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	<50.4	U	50.4		mg/Kg		09/20/23 15:17	09/21/23 02:56	1
Diesel Range Organics (Over C10-C28)	307		50.4		mg/Kg		09/20/23 15:17	09/21/23 02:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-15 (0-1')

Lab Sample ID: 880-33440-71

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 15:17	09/21/23 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				09/20/23 15:17	09/21/23 02:56	1
o-Terphenyl	120		70 - 130				09/20/23 15:17	09/21/23 02:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.00		mg/Kg			09/21/23 20:16	1

Client Sample ID: T-15 (1.5')

Lab Sample ID: 880-33440-72

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 07:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 07:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 07:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/20/23 10:17	09/22/23 07:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 07:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/20/23 10:17	09/22/23 07:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				09/20/23 10:17	09/22/23 07:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130				09/20/23 10:17	09/22/23 07:30	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			09/22/23 07:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/21/23 03:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/20/23 15:17	09/21/23 03:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/23 15:17	09/21/23 03:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/23 15:17	09/21/23 03:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				09/20/23 15:17	09/21/23 03:17	1
o-Terphenyl	117		70 - 130				09/20/23 15:17	09/21/23 03:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.97		mg/Kg			09/21/23 20:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-15 (2')

Lab Sample ID: 880-33440-73

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 07:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 07:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 07:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 07:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 07:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 07:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/20/23 10:17	09/22/23 07:58	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/20/23 10:17	09/22/23 07:58	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			09/22/23 07:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			09/21/23 03:38	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	<49.5	U	49.5		mg/Kg		09/20/23 15:17	09/21/23 03:38	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		09/20/23 15:17	09/21/23 03:38	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		09/20/23 15:17	09/21/23 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130	09/20/23 15:17	09/21/23 03:38	1
o-Terphenyl	130		70 - 130	09/20/23 15:17	09/21/23 03:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.5		5.02		mg/Kg			09/21/23 20:43	1

Client Sample ID: T-15 (3')

Lab Sample ID: 880-33440-74

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 08:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 08:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 08:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 08:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/20/23 10:17	09/22/23 08:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/23 10:17	09/22/23 08:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/20/23 10:17	09/22/23 08:26	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/20/23 10:17	09/22/23 08:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-15 (3')

Lab Sample ID: 880-33440-74

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			09/22/23 08:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			09/21/23 03:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		09/20/23 15:17	09/21/23 03:59	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		09/20/23 15:17	09/21/23 03:59	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		09/20/23 15:17	09/21/23 03:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				09/20/23 15:17	09/21/23 03:59	1
o-Terphenyl	117		70 - 130				09/20/23 15:17	09/21/23 03:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.2		5.03		mg/Kg			09/21/23 21:02	1

Client Sample ID: T-15 (4')

Lab Sample ID: 880-33440-75

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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		09/20/23 10:17	09/22/23 08:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:17	09/22/23 08:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:17	09/22/23 08:58	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/20/23 10:17	09/22/23 08:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/20/23 10:17	09/22/23 08:58	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/20/23 10:17	09/22/23 08:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/20/23 10:17	09/22/23 08:58	1
1,4-Difluorobenzene (Surr)	103		70 - 130				09/20/23 10:17	09/22/23 08:58	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			09/22/23 08:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			09/21/23 04:20	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	<49.5	U	49.5		mg/Kg		09/20/23 15:17	09/21/23 04:20	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		09/20/23 15:17	09/21/23 04:20	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-15 (4')
Date Collected: 09/19/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-75
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)	<49.5	U	49.5		mg/Kg		09/20/23 15:17	09/21/23 04:20	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	131	S1+	70 - 130				09/20/23 15:17	09/21/23 04:20	1	
o-Terphenyl	116		70 - 130				09/20/23 15:17	09/21/23 04:20	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	34.2		4.99		mg/Kg			09/21/23 21:09	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
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)
880-33440-1	T-1 (0-1')	90	64 S1-
880-33440-1 MS	T-1 (0-1')	92	101
880-33440-1 MSD	T-1 (0-1')	73	99
880-33440-2	T-1 (1.5')	94	76
880-33440-3	T-1 (2')	54 S1-	107
880-33440-4	T-1 (3')	75	85
880-33440-5	T-1 (4')	81	72
880-33440-6	T-2 (0-1')	81	81
880-33440-7	T-2 (1.5')	75	83
880-33440-8	T-2 (2')	79	74
880-33440-9	T-2 (3')	94	52 S1-
880-33440-10	T-2 (4')	88	62 S1-
880-33440-11	T-3 (0-1')	77	72
880-33440-12	T-3 (1.5')	64 S1-	74
880-33440-13	T-3 (2')	79	94
880-33440-14	T-3 (3')	78	95
880-33440-15	T-3 (4')	79	91
880-33440-16	T-4 (0-1')	79	84
880-33440-17	T-4 (1.5')	69 S1-	86
880-33440-18	T-4 (2')	79	95
880-33440-19	T-4 (3')	109	96
880-33440-20	T-4 (4')	75	87
880-33440-21	T-5 (0-1')	90	86
880-33440-21 MS	T-5 (0-1')	101	97
880-33440-21 MSD	T-5 (0-1')	83	87
880-33440-22	T-5 (1.5')	108	111
880-33440-23	T-5 (2')	97	104
880-33440-24	T-5 (3')	109	121
880-33440-25	T-5 (4')	120	122
880-33440-26	T-6 (0-1')	138 S1+	112
880-33440-27	T-6 (1.5')	130	110
880-33440-28	T-6 (2')	109	101
880-33440-29	T-6 (3')	116	94
880-33440-30	T-6 (4')	147 S1+	130
880-33440-31	T-7 (0-1')	105	111
880-33440-32	T-7 (1.5')	115	99
880-33440-33	T-7 (2')	101	118
880-33440-34	T-7 (3')	123	116
880-33440-35	T-7 (4')	95	88
880-33440-36	T-8 (0-1')	117	94
880-33440-37	T-8 (1.5')	115	108
880-33440-38	T-8 (2')	95	92
880-33440-39	T-8 (3')	97	94
880-33440-40	T-8 (4')	128	118
880-33440-41	T-9 (0-1')	94	66 S1-
880-33440-42	T-9 (1.5')	78	94
880-33440-43	T-9 (2')	74	100
880-33440-44	T-9 (3')	88	69 S1-
880-33440-45	T-9 (4')	88	75

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Surrogate Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
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)
880-33440-46	T-10 (0-1')	94	74
880-33440-47	T-10 (1.5')	115	100
880-33440-48	T-10 (2')	82	105
880-33440-49	T-10 (3')	93	81
880-33440-50	T-10 (4')	84	93
880-33440-51	T-11 (0-1')	86	72
880-33440-52	T-11 (1.5')	90	69 S1-
880-33440-53	T-11 (2')	88	70
880-33440-54	T-11 (3')	89	71
880-33440-55	T-11 (4')	77	94
880-33440-56	T-12 (0-1')	91	66 S1-
880-33440-57	T-12 (1.5')	88	72
880-33440-58	T-12 (2')	112	108
880-33440-59	T-12 (3')	101	105
880-33440-60	T-12 (4')	89	64 S1-
880-33440-61	T-13 (0-1')	90	81
880-33440-61 MS	T-13 (0-1')	98	86
880-33440-61 MSD	T-13 (0-1')	105	87
880-33440-62	T-13 (1.5')	91	99
880-33440-63	T-13 (2')	92	87
880-33440-64	T-13 (3')	103	118
880-33440-65	T-13 (4')	109	114
880-33440-66	T-14 (0-1')	111	106
880-33440-67	T-14 (1.5')	107	99
880-33440-68	T-14 (2')	118	131 S1+
880-33440-69	T-14 (3')	101	103
880-33440-70	T-14 (4')	100	125
880-33440-71	T-15 (0-1')	91	113
880-33440-72	T-15 (1.5')	97	100
880-33440-73	T-15 (2')	104	107
880-33440-74	T-15 (3')	98	108
880-33440-75	T-15 (4')	117	103
880-33440-A-41-A MS	880-33440-A-41-A MS	116	100
880-33440-A-41-B MSD	880-33440-A-41-B MSD	118	102
880-33473-A-1-E MS	Matrix Spike	75	138 S1+
880-33473-A-1-F MSD	Matrix Spike Duplicate	98	109
880-33525-A-24-E MS	Matrix Spike	122	99
880-33525-A-24-F MSD	Matrix Spike Duplicate	123	95
LCS 880-62884/1-A	Lab Control Sample	117	91
LCS 880-62885/1-A	Lab Control Sample	92	93
LCS 880-62886/1-A	Lab Control Sample	114	86
LCS 880-62887/1-A	Lab Control Sample	109	94
LCS 880-62985/1-A	Lab Control Sample	90	101
LCS 880-63060/1-A	Lab Control Sample	117	103
LCSD 880-62884/2-A	Lab Control Sample Dup	107	106
LCSD 880-62885/2-A	Lab Control Sample Dup	96	93
LCSD 880-62886/2-A	Lab Control Sample Dup	112	103
LCSD 880-62887/2-A	Lab Control Sample Dup	100	104
LCSD 880-62985/2-A	Lab Control Sample Dup	100	105
LCSD 880-63060/2-A	Lab Control Sample Dup	120	105

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Surrogate Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
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)
MB 880-62869/5-A	Method Blank	73	94
MB 880-62884/5-A	Method Blank	74	93
MB 880-62885/5-A	Method Blank	62 S1-	100
MB 880-62886/5-A	Method Blank	72	94
MB 880-62887/5-A	Method Blank	59 S1-	93
MB 880-62980/5-A	Method Blank	117	132 S1+
MB 880-62985/5-A	Method Blank	126	146 S1+
MB 880-63016/5-A	Method Blank	74	93
MB 880-63060/5-A	Method Blank	72	89
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)
880-33440-1	T-1 (0-1')	127	128
880-33440-1 MS	T-1 (0-1')	0.04 S1-	0.1 S1-
880-33440-1 MSD	T-1 (0-1')	0.2 S1-	0.1 S1-
880-33440-2	T-1 (1.5')	125	128
880-33440-3	T-1 (2')	160 S1+	175 S1+
880-33440-4	T-1 (3')	161 S1+	191 S1+
880-33440-5	T-1 (4')	188 S1+	213 S1+
880-33440-6	T-2 (0-1')	146 S1+	156 S1+
880-33440-7	T-2 (1.5')	134 S1+	139 S1+
880-33440-8	T-2 (2')	147 S1+	167 S1+
880-33440-9	T-2 (3')	155 S1+	183 S1+
880-33440-10	T-2 (4')	151 S1+	165 S1+
880-33440-11	T-3 (0-1')	150 S1+	155 S1+
880-33440-12	T-3 (1.5')	126	130
880-33440-13	T-3 (2')	137 S1+	143 S1+
880-33440-14	T-3 (3')	123	122
880-33440-15	T-3 (4')	174 S1+	182 S1+
880-33440-16	T-4 (0-1')	153 S1+	156 S1+
880-33440-17	T-4 (1.5')	148 S1+	153 S1+
880-33440-18	T-4 (2')	157 S1+	160 S1+
880-33440-19	T-4 (3')	147 S1+	153 S1+
880-33440-20	T-4 (4')	125	129
880-33440-21	T-5 (0-1')	120	107
880-33440-22	T-5 (1.5')	110	106
880-33440-22 MS	T-5 (1.5')	112	98
880-33440-22 MSD	T-5 (1.5')	108	95
880-33440-23	T-5 (2')	114	109
880-33440-24	T-5 (3')	122	117
880-33440-25	T-5 (4')	122	117
880-33440-26	T-6 (0-1')	117	111
880-33440-27	T-6 (1.5')	118	113

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Surrogate Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
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)
880-33440-28	T-6 (2')	107	102
880-33440-29	T-6 (3')	107	106
880-33440-30	T-6 (4')	109	107
880-33440-31	T-7 (0-1')	106	101
880-33440-32	T-7 (1.5')	112	105
880-33440-33	T-7 (2')	108	105
880-33440-34	T-7 (3')	118	115
880-33440-35	T-7 (4')	102	99
880-33440-36	T-8 (0-1')	108	104
880-33440-37	T-8 (1.5')	108	101
880-33440-38	T-8 (2')	100	94
880-33440-39	T-8 (3')	101	102
880-33440-40	T-8 (4')	111	106
880-33440-41	T-9 (0-1')	97	100
880-33440-42	T-9 (1.5')	100	107
880-33440-42 MS	T-9 (1.5')	139 S1+	130
880-33440-42 MSD	T-9 (1.5')	121	108
880-33440-43	T-9 (2')	105	110
880-33440-44	T-9 (3')	100	104
880-33440-45	T-9 (4')	107	109
880-33440-46	T-10 (0-1')	101	108
880-33440-47	T-10 (1.5')	104	108
880-33440-48	T-10 (2')	110	114
880-33440-49	T-10 (3')	104	107
880-33440-50	T-10 (4')	105	104
880-33440-51	T-11 (0-1')	99	100
880-33440-52	T-11 (1.5')	113	108
880-33440-53	T-11 (2')	102	108
880-33440-54	T-11 (3')	100	104
880-33440-55	T-11 (4')	114	111
880-33440-56	T-12 (0-1')	100	103
880-33440-57	T-12 (1.5')	117	120
880-33440-58	T-12 (2')	130	138 S1+
880-33440-59	T-12 (3')	118	117
880-33440-60	T-12 (4')	108	121
880-33440-61	T-13 (0-1')	142 S1+	121
880-33440-62	T-13 (1.5')	142 S1+	121
880-33440-63	T-13 (2')	136 S1+	116
880-33440-63 MS	T-13 (2')	141 S1+	111
880-33440-63 MSD	T-13 (2')	141 S1+	112
880-33440-64	T-13 (3')	140 S1+	121
880-33440-65	T-13 (4')	143 S1+	124
880-33440-66	T-14 (0-1')	139 S1+	119
880-33440-67	T-14 (1.5')	138 S1+	117
880-33440-68	T-14 (2')	138 S1+	119
880-33440-69	T-14 (3')	146 S1+	127
880-33440-70	T-14 (4')	145 S1+	128
880-33440-71	T-15 (0-1')	141 S1+	120
880-33440-72	T-15 (1.5')	135 S1+	117
880-33440-73	T-15 (2')	150 S1+	130

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Surrogate Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
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)
880-33440-74	T-15 (3')	135 S1+	117
880-33440-75	T-15 (4')	131 S1+	116
LCS 880-62903/2-A	Lab Control Sample	97	99
LCS 880-62904/2-A	Lab Control Sample	153 S1+	155 S1+
LCS 880-62906/2-A	Lab Control Sample	72	70
LCS 880-62928/2-A	Lab Control Sample	108	126
LCSD 880-62903/3-A	Lab Control Sample Dup	85	135 S1+
LCSD 880-62904/3-A	Lab Control Sample Dup	106	102
LCSD 880-62906/3-A	Lab Control Sample Dup	96	96
LCSD 880-62928/3-A	Lab Control Sample Dup	107	103
MB 880-62903/1-A	Method Blank	70	75
MB 880-62904/1-A - IN3	Method Blank	115	111
MB 880-62906/1-A	Method Blank	110	122
MB 880-62928/1-A	Method Blank	190 S1+	172 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-62869/5-A

Matrix: Solid

Analysis Batch: 62867

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 11:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 11:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/20/23 08:43	09/20/23 11:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 08:43	09/20/23 11:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/23 08:43	09/20/23 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	09/20/23 08:43	09/20/23 11:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/20/23 08:43	09/20/23 11:12	1

Lab Sample ID: MB 880-62884/5-A

Matrix: Solid

Analysis Batch: 62867

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62884

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/20/23 21:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/20/23 21:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/20/23 21:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/20/23 10:06	09/20/23 21:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:06	09/20/23 21:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/23 10:06	09/20/23 21:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	09/20/23 10:06	09/20/23 21:50	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/20/23 10:06	09/20/23 21:50	1

Lab Sample ID: LCS 880-62884/1-A

Matrix: Solid

Analysis Batch: 62867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08984		mg/Kg		90	70 - 130
Toluene	0.100	0.1020		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09769		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2087		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-62884/2-A

Matrix: Solid

Analysis Batch: 62867

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62884

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1025		mg/Kg		102	70 - 130	13	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-62884/2-A

Matrix: Solid

Analysis Batch: 62867

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62884

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1008		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.09305		mg/Kg		93	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1943		mg/Kg		97	70 - 130	7	35
o-Xylene	0.100	0.09834		mg/Kg		98	70 - 130	10	35

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

Lab Sample ID: 880-33440-1 MS

Matrix: Solid

Analysis Batch: 62867

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 62884

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0998	0.06009	F1	mg/Kg		60	70 - 130
Toluene	<0.00200	U F1	0.0998	0.05996	F1	mg/Kg		60	70 - 130
Ethylbenzene	<0.00200	U F2 F1	0.0998	0.05686	F1	mg/Kg		57	70 - 130
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.200	0.1085	F1	mg/Kg		54	70 - 130
o-Xylene	<0.00200	U F2 F1	0.0998	0.05530	F1	mg/Kg		55	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-33440-1 MSD

Matrix: Solid

Analysis Batch: 62867

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 62884

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.04264	F1	mg/Kg		42	70 - 130	34	35
Toluene	<0.00200	U F1	0.100	0.04371	F1	mg/Kg		44	70 - 130	31	35
Ethylbenzene	<0.00200	U F2 F1	0.100	0.03564	F2 F1	mg/Kg		36	70 - 130	46	35
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.201	0.06876	F2 F1	mg/Kg		34	70 - 130	45	35
o-Xylene	<0.00200	U F2 F1	0.100	0.03710	F2 F1	mg/Kg		37	70 - 130	39	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	73		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-62885/5-A

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/20/23 10:09	09/21/23 11:54	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-62885/5-A

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:09	09/21/23 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/23 10:09	09/21/23 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	09/20/23 10:09	09/21/23 11:54	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/20/23 10:09	09/21/23 11:54	1

Lab Sample ID: LCS 880-62885/1-A

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62885

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1165		mg/Kg		116	70 - 130
Toluene	0.100	0.1177		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1143		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2273		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1077		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-62885/2-A

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62885

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1151		mg/Kg		115	70 - 130	1	35
Toluene	0.100	0.1171		mg/Kg		117	70 - 130	1	35
Ethylbenzene	0.100	0.1140		mg/Kg		114	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2259		mg/Kg		113	70 - 130	1	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-33440-21 MS

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: T-5 (0-1')

Prep Type: Total/NA

Prep Batch: 62885

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.1009		mg/Kg		101	70 - 130
Toluene	<0.00199	U F2 F1	0.0998	0.09853		mg/Kg		99	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.07765		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1481		mg/Kg		74	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0998	0.07054		mg/Kg		71	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-33440-21 MS

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: T-5 (0-1')

Prep Type: Total/NA

Prep Batch: 62885

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-33440-21 MSD

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: T-5 (0-1')

Prep Type: Total/NA

Prep Batch: 62885

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	0.07425		mg/Kg		75	70 - 130	30	35
Toluene	<0.00199	U F2 F1	0.0990	0.06457	F2 F1	mg/Kg		65	70 - 130	42	35
Ethylbenzene	<0.00199	U F2 F1	0.0990	0.03946	F2 F1	mg/Kg		39	70 - 130	65	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.07641	F2 F1	mg/Kg		39	70 - 130	64	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.03426	F2 F1	mg/Kg		35	70 - 130	69	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-62886/5-A

Matrix: Solid

Analysis Batch: 62964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 11:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 11:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/20/23 10:13	09/21/23 11:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:13	09/21/23 11:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/23 10:13	09/21/23 11:12	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	09/20/23 10:13	09/21/23 11:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/20/23 10:13	09/21/23 11:12	1

Lab Sample ID: LCS 880-62886/1-A

Matrix: Solid

Analysis Batch: 62964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08890		mg/Kg		89	70 - 130
Toluene	0.100	0.09725		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.08049		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1719		mg/Kg		86	70 - 130
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-62886/1-A

Matrix: Solid

Analysis Batch: 62964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62886

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-62886/2-A

Matrix: Solid

Analysis Batch: 62964

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62886

	LCS	LCS							%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
Benzene	0.100	0.1007		mg/Kg		101	70 - 130	12	35			
Toluene	0.100	0.1005		mg/Kg		101	70 - 130	3	35			
Ethylbenzene	0.100	0.1034		mg/Kg		103	70 - 130	25	35			
m-Xylene & p-Xylene	0.200	0.2194		mg/Kg		110	70 - 130	24	35			
o-Xylene	0.100	0.1077		mg/Kg		108	70 - 130	6	35			

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-33440-A-41-A MS

Matrix: Solid

Analysis Batch: 62964

Client Sample ID: 880-33440-A-41-A MS

Prep Type: Total/NA

Prep Batch: 62886

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.0206	F1	0.0990	0.07738	F1	mg/Kg		57	70 - 130		
Toluene	0.404	E	0.0990	0.07428	4	mg/Kg		-333	70 - 130		
Ethylbenzene	0.0303	F1	0.0990	0.06744	F1	mg/Kg		37	70 - 130		
m-Xylene & p-Xylene	0.0465	F1	0.198	0.1366	F1	mg/Kg		46	70 - 130		
o-Xylene	0.0190	F1	0.0990	0.06846	F1	mg/Kg		50	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-33440-A-41-B MSD

Matrix: Solid

Analysis Batch: 62964

Client Sample ID: 880-33440-A-41-B MSD

Prep Type: Total/NA

Prep Batch: 62886

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.0206	F1	0.0996	0.09386		mg/Kg		74	70 - 130	19	35	
Toluene	0.404	E	0.0996	0.08417	4	mg/Kg		-322	70 - 130	12	35	
Ethylbenzene	0.0303	F1	0.0996	0.06523	F1	mg/Kg		35	70 - 130	3	35	
m-Xylene & p-Xylene	0.0465	F1	0.199	0.1305	F1	mg/Kg		42	70 - 130	5	35	
o-Xylene	0.0190	F1	0.0996	0.06470	F1	mg/Kg		46	70 - 130	6	35	

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

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-62887/5-A

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 01:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 01:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 01:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/20/23 10:17	09/22/23 01:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/23 10:17	09/22/23 01:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/23 10:17	09/22/23 01:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130	09/20/23 10:17	09/22/23 01:05	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/20/23 10:17	09/22/23 01:05	1

Lab Sample ID: LCS 880-62887/1-A

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07843		mg/Kg		78	70 - 130
Toluene	0.100	0.07617		mg/Kg		76	70 - 130
Ethylbenzene	0.100	0.07409		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1496		mg/Kg		75	70 - 130
o-Xylene	0.100	0.08105		mg/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-62887/2-A

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62887

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08059		mg/Kg		81	70 - 130	3	35
Toluene	0.100	0.08259		mg/Kg		83	70 - 130	8	35
Ethylbenzene	0.100	0.07448		mg/Kg		74	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1485		mg/Kg		74	70 - 130	1	35
o-Xylene	0.100	0.07991		mg/Kg		80	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-33440-61 MS

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: T-13 (0-1')

Prep Type: Total/NA

Prep Batch: 62887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.08753		mg/Kg		88	70 - 130
Toluene	<0.00199	U	0.0998	0.08390		mg/Kg		84	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-33440-61 MS

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: T-13 (0-1')

Prep Type: Total/NA

Prep Batch: 62887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0998	0.03147	F1	mg/Kg		30	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1368	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.06626	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-33440-61 MSD

Matrix: Solid

Analysis Batch: 62963

Client Sample ID: T-13 (0-1')

Prep Type: Total/NA

Prep Batch: 62887

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	0.1029		mg/Kg		104	70 - 130	16	35
Toluene	<0.00199	U	0.0990	0.08479		mg/Kg		86	70 - 130	1	35
Ethylbenzene	<0.00199	U F1	0.0990	0.04108	F1	mg/Kg		40	70 - 130	27	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1494		mg/Kg		75	70 - 130	9	35
o-Xylene	<0.00199	U F1	0.0990	0.07895		mg/Kg		80	70 - 130	17	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-62980/5-A

Matrix: Solid

Analysis Batch: 62965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/23 11:15	09/21/23 12:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/23 11:15	09/21/23 12:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/23 11:15	09/21/23 12:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/23 11:15	09/21/23 12:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/23 11:15	09/21/23 12:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/23 11:15	09/21/23 12:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/21/23 11:15	09/21/23 12:27	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	09/21/23 11:15	09/21/23 12:27	1

Lab Sample ID: MB 880-62985/5-A

Matrix: Solid

Analysis Batch: 62965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/23 12:47	09/22/23 00:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/23 12:47	09/22/23 00:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/23 12:47	09/22/23 00:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/23 12:47	09/22/23 00:03	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-62985/5-A

Matrix: Solid

Analysis Batch: 62965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/23 12:47	09/22/23 00:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/23 12:47	09/22/23 00:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/21/23 12:47	09/22/23 00:03	1
1,4-Difluorobenzene (Surr)	146	S1+	70 - 130				09/21/23 12:47	09/22/23 00:03	1

Lab Sample ID: LCS 880-62985/1-A

Matrix: Solid

Analysis Batch: 62965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08545		mg/Kg		85	70 - 130
Toluene	0.100	0.07728		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.06642	*-	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	0.200	0.1551		mg/Kg		78	70 - 130
o-Xylene	0.100	0.07637		mg/Kg		76	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	90		70 - 130				
1,4-Difluorobenzene (Surr)	101		70 - 130				

Lab Sample ID: LCSD 880-62985/2-A

Matrix: Solid

Analysis Batch: 62965

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62985

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09777		mg/Kg		98	70 - 130	13	35
Toluene	0.100	0.08805		mg/Kg		88	70 - 130	13	35
Ethylbenzene	0.100	0.08223		mg/Kg		82	70 - 130	21	35
m-Xylene & p-Xylene	0.200	0.1885		mg/Kg		94	70 - 130	19	35
o-Xylene	0.100	0.09312		mg/Kg		93	70 - 130	20	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: 880-33473-A-1-E MS

Matrix: Solid

Analysis Batch: 62965

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 62985

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.09493		mg/Kg		95	70 - 130
Toluene	<0.00200	U	0.0996	0.08386		mg/Kg		84	70 - 130
Ethylbenzene	<0.00200	U *	0.0996	0.07042		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1607		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.0996	0.07503		mg/Kg		75	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-33473-A-1-E MS

Matrix: Solid

Analysis Batch: 62965

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 62985

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	75		70 - 130
1,4-Difluorobenzene (Surr)	138	S1+	70 - 130

Lab Sample ID: 880-33473-A-1-F MSD

Matrix: Solid

Analysis Batch: 62965

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62985

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.1104		mg/Kg		110	70 - 130	15	35
Toluene	<0.00200	U	0.101	0.08224		mg/Kg		82	70 - 130	2	35
Ethylbenzene	<0.00200	U *	0.101	0.07237		mg/Kg		72	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1798		mg/Kg		89	70 - 130	11	35
o-Xylene	<0.00200	U	0.101	0.08764		mg/Kg		86	70 - 130	15	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-63016/5-A

Matrix: Solid

Analysis Batch: 63041

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/23 16:26	09/22/23 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/23 16:26	09/22/23 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/23 16:26	09/22/23 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/23 16:26	09/22/23 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/23 16:26	09/22/23 11:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/23 16:26	09/22/23 11:52	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130				09/21/23 16:26	09/22/23 11:52	1
1,4-Difluorobenzene (Surr)	93		70 - 130				09/21/23 16:26	09/22/23 11:52	1

Lab Sample ID: MB 880-63060/5-A

Matrix: Solid

Analysis Batch: 63041

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/23 11:10	09/22/23 22:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/23 11:10	09/22/23 22:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/23 11:10	09/22/23 22:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/22/23 11:10	09/22/23 22:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/23 11:10	09/22/23 22:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/23 11:10	09/22/23 22:49	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-63060/5-A

Matrix: Solid

Analysis Batch: 63041

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63060

	MB	MB			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	72		70 - 130	09/22/23 11:10	09/22/23 22:49
1,4-Difluorobenzene (Surr)	89		70 - 130	09/22/23 11:10	09/22/23 22:49

Lab Sample ID: LCS 880-63060/1-A

Matrix: Solid

Analysis Batch: 63041

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63060

		Spike	LCS	LCS					%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene		0.100	0.1053		mg/Kg		105	70 - 130		
Toluene		0.100	0.1150		mg/Kg		115	70 - 130		
Ethylbenzene		0.100	0.1173		mg/Kg		117	70 - 130		
m-Xylene & p-Xylene		0.200	0.2495		mg/Kg		125	70 - 130		
o-Xylene		0.100	0.1245		mg/Kg		124	70 - 130		

	LCS	LCS		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	117		70 - 130	
1,4-Difluorobenzene (Surr)	103		70 - 130	

Lab Sample ID: LCSD 880-63060/2-A

Matrix: Solid

Analysis Batch: 63041

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63060

		Spike	LCSD	LCSD					%Rec		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene		0.100	0.1023		mg/Kg		102	70 - 130	3	35		
Toluene		0.100	0.1090		mg/Kg		109	70 - 130	5	35		
Ethylbenzene		0.100	0.1118		mg/Kg		112	70 - 130	5	35		
m-Xylene & p-Xylene		0.200	0.2356		mg/Kg		118	70 - 130	6	35		
o-Xylene		0.100	0.1170		mg/Kg		117	70 - 130	6	35		

	LCSD	LCSD		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	120		70 - 130	
1,4-Difluorobenzene (Surr)	105		70 - 130	

Lab Sample ID: 880-33525-A-24-E MS

Matrix: Solid

Analysis Batch: 63041

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63060

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09872		mg/Kg		99	70 - 130	
Toluene	<0.00200	U	0.0998	0.1074		mg/Kg		108	70 - 130	
Ethylbenzene	<0.00200	U	0.0998	0.1132		mg/Kg		113	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2382		mg/Kg		119	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.1185		mg/Kg		119	70 - 130	

	MS	MS		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	122		70 - 130	
1,4-Difluorobenzene (Surr)	99		70 - 130	

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-33525-A-24-F MSD

Matrix: Solid

Analysis Batch: 63041

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09451		mg/Kg		95	70 - 130	4	35
Toluene	<0.00200	U	0.0996	0.1061		mg/Kg		107	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0996	0.1171		mg/Kg		118	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2451		mg/Kg		123	70 - 130	3	35
o-Xylene	<0.00200	U	0.0996	0.1220		mg/Kg		122	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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

Lab Sample ID: MB 880-62903/1-A

Matrix: Solid

Analysis Batch: 62865

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62903

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		09/20/23 08:00	09/20/23 08:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/23 08:00	09/20/23 08:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/23 08:00	09/20/23 08:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	09/20/23 08:00	09/20/23 08:28	1
o-Terphenyl	75		70 - 130	09/20/23 08:00	09/20/23 08:28	1

Lab Sample ID: LCS 880-62903/2-A

Matrix: Solid

Analysis Batch: 62865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	885.5		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	860.7		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-62903/3-A

Matrix: Solid

Analysis Batch: 62865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62903

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1059		mg/Kg		106	70 - 130	18	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-62903/3-A

Matrix: Solid

Analysis Batch: 62865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62903

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	1026		mg/Kg		103	70 - 130	17	20
	LCSD %Recovery	LCSD Qualifier	Limits						
Surrogate									
1-Chlorooctane	85		70 - 130						
o-Terphenyl	135	S1+	70 - 130						

Lab Sample ID: 880-33440-1 MS

Matrix: Solid

Analysis Batch: 62865

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 62903

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 F1	1010	<50.3	U F1	mg/Kg		0	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1010	<50.3	U F1	mg/Kg		-2	70 - 130		
	MS %Recovery	MS Qualifier	Limits								
Surrogate											
1-Chlorooctane	0.04	S1-	70 - 130								
o-Terphenyl	0.1	S1-	70 - 130								

Lab Sample ID: 880-33440-1 MSD

Matrix: Solid

Analysis Batch: 62865

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 62903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1010	<50.3	U F1	mg/Kg		0	70 - 130	NC	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1010	<50.3	U F1	mg/Kg		-2	70 - 130	9	20
	MSD %Recovery	MSD Qualifier	Limits								
Surrogate											
1-Chlorooctane	0.2	S1-	70 - 130								
o-Terphenyl	0.1	S1-	70 - 130								

Lab Sample ID: LCS 880-62904/2-A

Matrix: Solid

Analysis Batch: 62860

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	881.3		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1025		mg/Kg		102	70 - 130		
	LCS %Recovery	LCS Qualifier	Limits						
Surrogate									
1-Chlorooctane	153	S1+	70 - 130						
o-Terphenyl	155	S1+	70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-62904/3-A

Matrix: Solid

Analysis Batch: 62860

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62904

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	870.7		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1003		mg/Kg		100	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	102		70 - 130						

Lab Sample ID: 880-33440-22 MS

Matrix: Solid

Analysis Batch: 62860

Client Sample ID: T-5 (1.5')

Prep Type: Total/NA

Prep Batch: 62904

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	<50.3	U	998	724.1		mg/Kg		73	70 - 130		
Diesel Range Organics (Over C10-C28)	70.5	F1	998	711.5	F1	mg/Kg		64	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	98		70 - 130								

Lab Sample ID: 880-33440-22 MSD

Matrix: Solid

Analysis Batch: 62860

Client Sample ID: T-5 (1.5')

Prep Type: Total/NA

Prep Batch: 62904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	998	703.3		mg/Kg		70	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	70.5	F1	998	690.7	F1	mg/Kg		62	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	95		70 - 130								

Lab Sample ID: MB 880-62906/1-A

Matrix: Solid

Analysis Batch: 62862

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62906

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		09/20/23 08:00	09/20/23 08:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/23 08:00	09/20/23 08:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/23 08:00	09/20/23 08:27	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-62906/1-A
Matrix: Solid
Analysis Batch: 62862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62906

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	09/20/23 08:00	09/20/23 08:27	1
o-Terphenyl	122		70 - 130	09/20/23 08:00	09/20/23 08:27	1

Lab Sample ID: LCS 880-62906/2-A
Matrix: Solid
Analysis Batch: 62862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62906

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	971.5		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	776.7		mg/Kg		78	70 - 130		
Surrogate		LCS	LCS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	72		70 - 130								
o-Terphenyl	70		70 - 130								

Lab Sample ID: LCSD 880-62906/3-A
Matrix: Solid
Analysis Batch: 62862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62906

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	873.2		mg/Kg		87	70 - 130	11	20	
Diesel Range Organics (Over C10-C28)			1000	919.9		mg/Kg		92	70 - 130	17	20	
Surrogate		LCSD	LCSD									
	%Recovery	Qualifier	Limits									
1-Chlorooctane	96		70 - 130									
o-Terphenyl	96		70 - 130									

Lab Sample ID: 880-33440-42 MS
Matrix: Solid
Analysis Batch: 62862

Client Sample ID: T-9 (1.5')
Prep Type: Total/NA
Prep Batch: 62906

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	1010	865.7		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)	248	F1	1010	1041		mg/Kg		79	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	139	S1+	70 - 130								
o-Terphenyl	130		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-33440-42 MSD

Matrix: Solid

Analysis Batch: 62862

Client Sample ID: T-9 (1.5')

Prep Type: Total/NA

Prep Batch: 62906

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	<49.7	U	1010	796.3		mg/Kg		76	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	248	F1	1010	880.4	F1	mg/Kg		63	70 - 130	17	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	121		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: MB 880-62928/1-A

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62928

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		09/20/23 15:17	09/20/23 21:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/23 15:17	09/20/23 21:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/23 15:17	09/20/23 21:16	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	190	S1+	70 - 130				09/20/23 15:17	09/20/23 21:16	1
o-Terphenyl	172	S1+	70 - 130				09/20/23 15:17	09/20/23 21:16	1

Lab Sample ID: LCS 880-62928/2-A

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	937.1		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	891.5		mg/Kg		89	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	126		70 - 130						

Lab Sample ID: LCSD 880-62928/3-A

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62928

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	984.7		mg/Kg		98	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	934.7		mg/Kg		93	70 - 130	5	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-62928/3-A

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62928

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 880-33440-63 MS

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: T-13 (2')

Prep Type: Total/NA

Prep Batch: 62928

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	856.4		mg/Kg		86	70 - 130	
Diesel Range Organics (Over C10-C28)	57.4		997	1141		mg/Kg		109	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	141	S1+	70 - 130							
o-Terphenyl	111		70 - 130							

Lab Sample ID: 880-33440-63 MSD

Matrix: Solid

Analysis Batch: 62863

Client Sample ID: T-13 (2')

Prep Type: Total/NA

Prep Batch: 62928

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	865.9		mg/Kg		87	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	57.4		997	1155		mg/Kg		110	70 - 130	1	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	141	S1+	70 - 130									
o-Terphenyl	112		70 - 130									

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - IN3

Lab Sample ID: MB 880-62904/1-A

Matrix: Solid

Analysis Batch: 62860

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62904

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10 - IN3	<50.0	U	50.0		mg/Kg		09/20/23 08:00	09/20/23 08:27	1		
Diesel Range Organics (Over C10-C28) - IN3	<50.0	U	50.0		mg/Kg		09/20/23 08:00	09/20/23 08:27	1		
Oil Range Organics (Over C28-C36) - IN3	<50.0	U	50.0		mg/Kg		09/20/23 08:00	09/20/23 08:27	1		
	MB	MB									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
1-Chlorooctane - IN3	115		70 - 130				09/20/23 08:00	09/20/23 08:27	1		
o-Terphenyl - IN3	111		70 - 130				09/20/23 08:00	09/20/23 08:27	1		

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-62890/1-A

Matrix: Solid

Analysis Batch: 62939

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			09/20/23 21:17	1

Lab Sample ID: LCS 880-62890/2-A

Matrix: Solid

Analysis Batch: 62939

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.2		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-62890/3-A

Matrix: Solid

Analysis Batch: 62939

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	247.4		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-33440-1 MS

Matrix: Solid

Analysis Batch: 62939

Client Sample ID: T-1 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	127	F1	250	343.7	F1	mg/Kg		87	90 - 110

Lab Sample ID: 880-33440-1 MSD

Matrix: Solid

Analysis Batch: 62939

Client Sample ID: T-1 (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	127	F1	250	344.1	F1	mg/Kg		87	90 - 110	0	20

Lab Sample ID: 880-33440-11 MS

Matrix: Solid

Analysis Batch: 62939

Client Sample ID: T-3 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	80.5	F1	253	414.8	F1	mg/Kg		132	90 - 110

Lab Sample ID: 880-33440-11 MSD

Matrix: Solid

Analysis Batch: 62939

Client Sample ID: T-3 (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	80.5	F1	253	415.6	F1	mg/Kg		133	90 - 110	0	20

Lab Sample ID: MB 880-62894/1-A

Matrix: Solid

Analysis Batch: 63057

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			09/21/23 10:53	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-62894/2-A
Matrix: Solid
Analysis Batch: 63057

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.6		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-62894/3-A
Matrix: Solid
Analysis Batch: 63057

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	244.5		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-33440-21 MS
Matrix: Solid
Analysis Batch: 63057

Client Sample ID: T-5 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	94.3		252	371.3		mg/Kg		110	90 - 110

Lab Sample ID: 880-33440-21 MSD
Matrix: Solid
Analysis Batch: 63057

Client Sample ID: T-5 (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	94.3		252	369.3		mg/Kg		109	90 - 110	1	20

Lab Sample ID: 880-33440-31 MS
Matrix: Solid
Analysis Batch: 63057

Client Sample ID: T-7 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	116	F1	252	327.8	F1	mg/Kg		84	90 - 110

Lab Sample ID: 880-33440-31 MSD
Matrix: Solid
Analysis Batch: 63057

Client Sample ID: T-7 (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	116	F1	252	327.2	F1	mg/Kg		84	90 - 110	0	20

Lab Sample ID: MB 880-62895/1-A
Matrix: Solid
Analysis Batch: 63058

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			09/21/23 11:03	1

Lab Sample ID: LCS 880-62895/2-A
Matrix: Solid
Analysis Batch: 63058

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.6		mg/Kg		97	90 - 110

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-62895/3-A
Matrix: Solid
Analysis Batch: 63058

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	244.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-33440-41 MS
Matrix: Solid
Analysis Batch: 63058

Client Sample ID: T-9 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	82.6		253	339.3		mg/Kg		102	90 - 110		

Lab Sample ID: 880-33440-41 MSD
Matrix: Solid
Analysis Batch: 63058

Client Sample ID: T-9 (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	82.6		253	337.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-33440-51 MS
Matrix: Solid
Analysis Batch: 63058

Client Sample ID: T-11 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	116	F1	249	292.3	F1	mg/Kg		71	90 - 110		

Lab Sample ID: 880-33440-51 MSD
Matrix: Solid
Analysis Batch: 63058

Client Sample ID: T-11 (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	116	F1	249	293.0	F1	mg/Kg		71	90 - 110	0	20

Lab Sample ID: MB 880-62896/1-A
Matrix: Solid
Analysis Batch: 63063

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			09/21/23 18:24	1

Lab Sample ID: LCS 880-62896/2-A
Matrix: Solid
Analysis Batch: 63063

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.3		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-62896/3-A
Matrix: Solid
Analysis Batch: 63063

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	251.6		mg/Kg		101	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-33440-61 MS

Matrix: Solid

Analysis Batch: 63063

Client Sample ID: T-13 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	106	F1	252	331.0	F1	mg/Kg		89	90 - 110

Lab Sample ID: 880-33440-61 MSD

Matrix: Solid

Analysis Batch: 63063

Client Sample ID: T-13 (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	106	F1	252	330.8	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: 880-33440-71 MS

Matrix: Solid

Analysis Batch: 63063

Client Sample ID: T-15 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	104		250	336.5		mg/Kg		93	90 - 110

Lab Sample ID: 880-33440-71 MSD

Matrix: Solid

Analysis Batch: 63063

Client Sample ID: T-15 (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		250	337.2		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 62867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-1	T-1 (0-1')	Total/NA	Solid	8021B	62884
880-33440-2	T-1 (1.5')	Total/NA	Solid	8021B	62884
880-33440-3	T-1 (2')	Total/NA	Solid	8021B	62884
880-33440-4	T-1 (3')	Total/NA	Solid	8021B	62884
880-33440-5	T-1 (4')	Total/NA	Solid	8021B	62884
880-33440-6	T-2 (0-1')	Total/NA	Solid	8021B	62884
880-33440-7	T-2 (1.5')	Total/NA	Solid	8021B	62884
880-33440-8	T-2 (2')	Total/NA	Solid	8021B	62884
880-33440-9	T-2 (3')	Total/NA	Solid	8021B	62884
880-33440-10	T-2 (4')	Total/NA	Solid	8021B	62884
880-33440-11	T-3 (0-1')	Total/NA	Solid	8021B	62884
880-33440-12	T-3 (1.5')	Total/NA	Solid	8021B	62884
880-33440-13	T-3 (2')	Total/NA	Solid	8021B	62884
880-33440-14	T-3 (3')	Total/NA	Solid	8021B	62884
880-33440-15	T-3 (4')	Total/NA	Solid	8021B	62884
880-33440-16	T-4 (0-1')	Total/NA	Solid	8021B	62884
880-33440-17	T-4 (1.5')	Total/NA	Solid	8021B	62884
880-33440-18	T-4 (2')	Total/NA	Solid	8021B	62884
880-33440-19	T-4 (3')	Total/NA	Solid	8021B	62884
880-33440-20	T-4 (4')	Total/NA	Solid	8021B	62884
MB 880-62869/5-A	Method Blank	Total/NA	Solid	8021B	62869
MB 880-62884/5-A	Method Blank	Total/NA	Solid	8021B	62884
LCS 880-62884/1-A	Lab Control Sample	Total/NA	Solid	8021B	62884
LCSD 880-62884/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62884
880-33440-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	62884
880-33440-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	62884

Prep Batch: 62869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-62869/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 62884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-1	T-1 (0-1')	Total/NA	Solid	5035	
880-33440-2	T-1 (1.5')	Total/NA	Solid	5035	
880-33440-3	T-1 (2')	Total/NA	Solid	5035	
880-33440-4	T-1 (3')	Total/NA	Solid	5035	
880-33440-5	T-1 (4')	Total/NA	Solid	5035	
880-33440-6	T-2 (0-1')	Total/NA	Solid	5035	
880-33440-7	T-2 (1.5')	Total/NA	Solid	5035	
880-33440-8	T-2 (2')	Total/NA	Solid	5035	
880-33440-9	T-2 (3')	Total/NA	Solid	5035	
880-33440-10	T-2 (4')	Total/NA	Solid	5035	
880-33440-11	T-3 (0-1')	Total/NA	Solid	5035	
880-33440-12	T-3 (1.5')	Total/NA	Solid	5035	
880-33440-13	T-3 (2')	Total/NA	Solid	5035	
880-33440-14	T-3 (3')	Total/NA	Solid	5035	
880-33440-15	T-3 (4')	Total/NA	Solid	5035	
880-33440-16	T-4 (0-1')	Total/NA	Solid	5035	
880-33440-17	T-4 (1.5')	Total/NA	Solid	5035	
880-33440-18	T-4 (2')	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 62884 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-19	T-4 (3')	Total/NA	Solid	5035	
880-33440-20	T-4 (4')	Total/NA	Solid	5035	
MB 880-62884/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62884/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62884/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33440-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-33440-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 62885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-21	T-5 (0-1')	Total/NA	Solid	5035	
880-33440-22	T-5 (1.5')	Total/NA	Solid	5035	
880-33440-23	T-5 (2')	Total/NA	Solid	5035	
880-33440-24	T-5 (3')	Total/NA	Solid	5035	
880-33440-25	T-5 (4')	Total/NA	Solid	5035	
880-33440-26	T-6 (0-1')	Total/NA	Solid	5035	
880-33440-27	T-6 (1.5')	Total/NA	Solid	5035	
880-33440-28	T-6 (2')	Total/NA	Solid	5035	
880-33440-29	T-6 (3')	Total/NA	Solid	5035	
880-33440-30	T-6 (4')	Total/NA	Solid	5035	
880-33440-31	T-7 (0-1')	Total/NA	Solid	5035	
880-33440-32	T-7 (1.5')	Total/NA	Solid	5035	
880-33440-33	T-7 (2')	Total/NA	Solid	5035	
880-33440-34	T-7 (3')	Total/NA	Solid	5035	
880-33440-35	T-7 (4')	Total/NA	Solid	5035	
880-33440-36	T-8 (0-1')	Total/NA	Solid	5035	
880-33440-37	T-8 (1.5')	Total/NA	Solid	5035	
880-33440-38	T-8 (2')	Total/NA	Solid	5035	
880-33440-39	T-8 (3')	Total/NA	Solid	5035	
880-33440-40	T-8 (4')	Total/NA	Solid	5035	
MB 880-62885/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62885/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62885/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33440-21 MS	T-5 (0-1')	Total/NA	Solid	5035	
880-33440-21 MSD	T-5 (0-1')	Total/NA	Solid	5035	

Prep Batch: 62886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-42	T-9 (1.5')	Total/NA	Solid	5035	
880-33440-43	T-9 (2')	Total/NA	Solid	5035	
880-33440-44	T-9 (3')	Total/NA	Solid	5035	
880-33440-45	T-9 (4')	Total/NA	Solid	5035	
880-33440-46	T-10 (0-1')	Total/NA	Solid	5035	
880-33440-47	T-10 (1.5')	Total/NA	Solid	5035	
880-33440-48	T-10 (2')	Total/NA	Solid	5035	
880-33440-49	T-10 (3')	Total/NA	Solid	5035	
880-33440-50	T-10 (4')	Total/NA	Solid	5035	
880-33440-51	T-11 (0-1')	Total/NA	Solid	5035	
880-33440-52	T-11 (1.5')	Total/NA	Solid	5035	
880-33440-53	T-11 (2')	Total/NA	Solid	5035	
880-33440-54	T-11 (3')	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 62886 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-55	T-11 (4')	Total/NA	Solid	5035	
880-33440-56	T-12 (0-1')	Total/NA	Solid	5035	
880-33440-57	T-12 (1.5')	Total/NA	Solid	5035	
MB 880-62886/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62886/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62886/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33440-A-41-A MS	880-33440-A-41-A MS	Total/NA	Solid	5035	
880-33440-A-41-B MSD	880-33440-A-41-B MSD	Total/NA	Solid	5035	

Prep Batch: 62887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-61	T-13 (0-1')	Total/NA	Solid	5035	
880-33440-62	T-13 (1.5')	Total/NA	Solid	5035	
880-33440-63	T-13 (2')	Total/NA	Solid	5035	
880-33440-64	T-13 (3')	Total/NA	Solid	5035	
880-33440-65	T-13 (4')	Total/NA	Solid	5035	
880-33440-66	T-14 (0-1')	Total/NA	Solid	5035	
880-33440-67	T-14 (1.5')	Total/NA	Solid	5035	
880-33440-68	T-14 (2')	Total/NA	Solid	5035	
880-33440-69	T-14 (3')	Total/NA	Solid	5035	
880-33440-70	T-14 (4')	Total/NA	Solid	5035	
880-33440-71	T-15 (0-1')	Total/NA	Solid	5035	
880-33440-72	T-15 (1.5')	Total/NA	Solid	5035	
880-33440-73	T-15 (2')	Total/NA	Solid	5035	
880-33440-74	T-15 (3')	Total/NA	Solid	5035	
880-33440-75	T-15 (4')	Total/NA	Solid	5035	
MB 880-62887/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62887/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62887/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33440-61 MS	T-13 (0-1')	Total/NA	Solid	5035	
880-33440-61 MSD	T-13 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 62963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-21	T-5 (0-1')	Total/NA	Solid	8021B	62885
880-33440-22	T-5 (1.5')	Total/NA	Solid	8021B	62885
880-33440-23	T-5 (2')	Total/NA	Solid	8021B	62885
880-33440-24	T-5 (3')	Total/NA	Solid	8021B	62885
880-33440-25	T-5 (4')	Total/NA	Solid	8021B	62885
880-33440-26	T-6 (0-1')	Total/NA	Solid	8021B	62885
880-33440-27	T-6 (1.5')	Total/NA	Solid	8021B	62885
880-33440-28	T-6 (2')	Total/NA	Solid	8021B	62885
880-33440-29	T-6 (3')	Total/NA	Solid	8021B	62885
880-33440-30	T-6 (4')	Total/NA	Solid	8021B	62885
880-33440-31	T-7 (0-1')	Total/NA	Solid	8021B	62885
880-33440-32	T-7 (1.5')	Total/NA	Solid	8021B	62885
880-33440-33	T-7 (2')	Total/NA	Solid	8021B	62885
880-33440-34	T-7 (3')	Total/NA	Solid	8021B	62885
880-33440-35	T-7 (4')	Total/NA	Solid	8021B	62885
880-33440-36	T-8 (0-1')	Total/NA	Solid	8021B	62885
880-33440-37	T-8 (1.5')	Total/NA	Solid	8021B	62885

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QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 62963 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-38	T-8 (2')	Total/NA	Solid	8021B	62885
880-33440-39	T-8 (3')	Total/NA	Solid	8021B	62885
880-33440-40	T-8 (4')	Total/NA	Solid	8021B	62885
880-33440-61	T-13 (0-1')	Total/NA	Solid	8021B	62887
880-33440-62	T-13 (1.5')	Total/NA	Solid	8021B	62887
880-33440-63	T-13 (2')	Total/NA	Solid	8021B	62887
880-33440-64	T-13 (3')	Total/NA	Solid	8021B	62887
880-33440-65	T-13 (4')	Total/NA	Solid	8021B	62887
880-33440-66	T-14 (0-1')	Total/NA	Solid	8021B	62887
880-33440-67	T-14 (1.5')	Total/NA	Solid	8021B	62887
880-33440-68	T-14 (2')	Total/NA	Solid	8021B	62887
880-33440-69	T-14 (3')	Total/NA	Solid	8021B	62887
880-33440-70	T-14 (4')	Total/NA	Solid	8021B	62887
880-33440-71	T-15 (0-1')	Total/NA	Solid	8021B	62887
880-33440-72	T-15 (1.5')	Total/NA	Solid	8021B	62887
880-33440-73	T-15 (2')	Total/NA	Solid	8021B	62887
880-33440-74	T-15 (3')	Total/NA	Solid	8021B	62887
880-33440-75	T-15 (4')	Total/NA	Solid	8021B	62887
MB 880-62885/5-A	Method Blank	Total/NA	Solid	8021B	62885
MB 880-62887/5-A	Method Blank	Total/NA	Solid	8021B	62887
LCS 880-62885/1-A	Lab Control Sample	Total/NA	Solid	8021B	62885
LCS 880-62887/1-A	Lab Control Sample	Total/NA	Solid	8021B	62887
LCSD 880-62885/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62885
LCSD 880-62887/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62887
880-33440-21 MS	T-5 (0-1')	Total/NA	Solid	8021B	62885
880-33440-21 MSD	T-5 (0-1')	Total/NA	Solid	8021B	62885
880-33440-61 MS	T-13 (0-1')	Total/NA	Solid	8021B	62887
880-33440-61 MSD	T-13 (0-1')	Total/NA	Solid	8021B	62887

Analysis Batch: 62964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-42	T-9 (1.5')	Total/NA	Solid	8021B	62886
880-33440-43	T-9 (2')	Total/NA	Solid	8021B	62886
880-33440-44	T-9 (3')	Total/NA	Solid	8021B	62886
880-33440-45	T-9 (4')	Total/NA	Solid	8021B	62886
880-33440-46	T-10 (0-1')	Total/NA	Solid	8021B	62886
880-33440-47	T-10 (1.5')	Total/NA	Solid	8021B	62886
880-33440-48	T-10 (2')	Total/NA	Solid	8021B	62886
880-33440-49	T-10 (3')	Total/NA	Solid	8021B	62886
880-33440-50	T-10 (4')	Total/NA	Solid	8021B	62886
880-33440-51	T-11 (0-1')	Total/NA	Solid	8021B	62886
880-33440-52	T-11 (1.5')	Total/NA	Solid	8021B	62886
880-33440-53	T-11 (2')	Total/NA	Solid	8021B	62886
880-33440-54	T-11 (3')	Total/NA	Solid	8021B	62886
880-33440-55	T-11 (4')	Total/NA	Solid	8021B	62886
880-33440-56	T-12 (0-1')	Total/NA	Solid	8021B	62886
880-33440-57	T-12 (1.5')	Total/NA	Solid	8021B	62886
MB 880-62886/5-A	Method Blank	Total/NA	Solid	8021B	62886
LCS 880-62886/1-A	Lab Control Sample	Total/NA	Solid	8021B	62886
LCSD 880-62886/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62886
880-33440-A-41-A MS	880-33440-A-41-A MS	Total/NA	Solid	8021B	62886

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 62964 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-A-41-B MSD	880-33440-A-41-B MSD	Total/NA	Solid	8021B	62886

Analysis Batch: 62965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-58	T-12 (2')	Total/NA	Solid	8021B	62985
880-33440-59	T-12 (3')	Total/NA	Solid	8021B	62985
MB 880-62980/5-A	Method Blank	Total/NA	Solid	8021B	62980
MB 880-62985/5-A	Method Blank	Total/NA	Solid	8021B	62985
LCS 880-62985/1-A	Lab Control Sample	Total/NA	Solid	8021B	62985
LCSD 880-62985/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62985
880-33473-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	62985
880-33473-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62985

Analysis Batch: 62974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-3	T-1 (2')	Total/NA	Solid	Total BTEX	
880-33440-4	T-1 (3')	Total/NA	Solid	Total BTEX	
880-33440-5	T-1 (4')	Total/NA	Solid	Total BTEX	
880-33440-6	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-7	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-8	T-2 (2')	Total/NA	Solid	Total BTEX	
880-33440-9	T-2 (3')	Total/NA	Solid	Total BTEX	
880-33440-10	T-2 (4')	Total/NA	Solid	Total BTEX	
880-33440-11	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-12	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-13	T-3 (2')	Total/NA	Solid	Total BTEX	
880-33440-14	T-3 (3')	Total/NA	Solid	Total BTEX	
880-33440-15	T-3 (4')	Total/NA	Solid	Total BTEX	
880-33440-16	T-4 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-17	T-4 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-18	T-4 (2')	Total/NA	Solid	Total BTEX	
880-33440-19	T-4 (3')	Total/NA	Solid	Total BTEX	
880-33440-20	T-4 (4')	Total/NA	Solid	Total BTEX	
880-33440-21	T-5 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-22	T-5 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-23	T-5 (2')	Total/NA	Solid	Total BTEX	
880-33440-24	T-5 (3')	Total/NA	Solid	Total BTEX	
880-33440-25	T-5 (4')	Total/NA	Solid	Total BTEX	
880-33440-26	T-6 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-27	T-6 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-28	T-6 (2')	Total/NA	Solid	Total BTEX	
880-33440-29	T-6 (3')	Total/NA	Solid	Total BTEX	
880-33440-30	T-6 (4')	Total/NA	Solid	Total BTEX	
880-33440-31	T-7 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-32	T-7 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-33	T-7 (2')	Total/NA	Solid	Total BTEX	
880-33440-34	T-7 (3')	Total/NA	Solid	Total BTEX	
880-33440-35	T-7 (4')	Total/NA	Solid	Total BTEX	
880-33440-36	T-8 (0-1')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 62974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-37	T-8 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-38	T-8 (2')	Total/NA	Solid	Total BTEX	
880-33440-39	T-8 (3')	Total/NA	Solid	Total BTEX	
880-33440-40	T-8 (4')	Total/NA	Solid	Total BTEX	
880-33440-41	T-9 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-42	T-9 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-43	T-9 (2')	Total/NA	Solid	Total BTEX	
880-33440-44	T-9 (3')	Total/NA	Solid	Total BTEX	
880-33440-45	T-9 (4')	Total/NA	Solid	Total BTEX	
880-33440-46	T-10 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-47	T-10 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-48	T-10 (2')	Total/NA	Solid	Total BTEX	
880-33440-49	T-10 (3')	Total/NA	Solid	Total BTEX	
880-33440-50	T-10 (4')	Total/NA	Solid	Total BTEX	
880-33440-51	T-11 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-52	T-11 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-53	T-11 (2')	Total/NA	Solid	Total BTEX	
880-33440-54	T-11 (3')	Total/NA	Solid	Total BTEX	
880-33440-55	T-11 (4')	Total/NA	Solid	Total BTEX	
880-33440-56	T-12 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-57	T-12 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-58	T-12 (2')	Total/NA	Solid	Total BTEX	
880-33440-59	T-12 (3')	Total/NA	Solid	Total BTEX	
880-33440-60	T-12 (4')	Total/NA	Solid	Total BTEX	
880-33440-61	T-13 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-62	T-13 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-63	T-13 (2')	Total/NA	Solid	Total BTEX	
880-33440-64	T-13 (3')	Total/NA	Solid	Total BTEX	
880-33440-65	T-13 (4')	Total/NA	Solid	Total BTEX	
880-33440-66	T-14 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-67	T-14 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-68	T-14 (2')	Total/NA	Solid	Total BTEX	
880-33440-69	T-14 (3')	Total/NA	Solid	Total BTEX	
880-33440-70	T-14 (4')	Total/NA	Solid	Total BTEX	
880-33440-71	T-15 (0-1')	Total/NA	Solid	Total BTEX	
880-33440-72	T-15 (1.5')	Total/NA	Solid	Total BTEX	
880-33440-73	T-15 (2')	Total/NA	Solid	Total BTEX	
880-33440-74	T-15 (3')	Total/NA	Solid	Total BTEX	
880-33440-75	T-15 (4')	Total/NA	Solid	Total BTEX	

Prep Batch: 62980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-62980/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 62985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-58	T-12 (2')	Total/NA	Solid	5035	
880-33440-59	T-12 (3')	Total/NA	Solid	5035	
MB 880-62985/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62985/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62985/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 62985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33473-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-33473-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 63016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-63016/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 63041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-41	T-9 (0-1')	Total/NA	Solid	8021B	63060
880-33440-60	T-12 (4')	Total/NA	Solid	8021B	63060
MB 880-63016/5-A	Method Blank	Total/NA	Solid	8021B	63016
MB 880-63060/5-A	Method Blank	Total/NA	Solid	8021B	63060
LCS 880-63060/1-A	Lab Control Sample	Total/NA	Solid	8021B	63060
LCSD 880-63060/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63060
880-33525-A-24-E MS	Matrix Spike	Total/NA	Solid	8021B	63060
880-33525-A-24-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	63060

Prep Batch: 63060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-41	T-9 (0-1')	Total/NA	Solid	5035	
880-33440-60	T-12 (4')	Total/NA	Solid	5035	
MB 880-63060/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63060/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63060/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33525-A-24-E MS	Matrix Spike	Total/NA	Solid	5035	
880-33525-A-24-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 62860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-21	T-5 (0-1')	Total/NA	Solid	8015B NM	62904
880-33440-22	T-5 (1.5')	Total/NA	Solid	8015B NM	62904
880-33440-23	T-5 (2')	Total/NA	Solid	8015B NM	62904
880-33440-24	T-5 (3')	Total/NA	Solid	8015B NM	62904
880-33440-25	T-5 (4')	Total/NA	Solid	8015B NM	62904
880-33440-26	T-6 (0-1')	Total/NA	Solid	8015B NM	62904
880-33440-27	T-6 (1.5')	Total/NA	Solid	8015B NM	62904
880-33440-28	T-6 (2')	Total/NA	Solid	8015B NM	62904
880-33440-29	T-6 (3')	Total/NA	Solid	8015B NM	62904
880-33440-30	T-6 (4')	Total/NA	Solid	8015B NM	62904
880-33440-31	T-7 (0-1')	Total/NA	Solid	8015B NM	62904
880-33440-32	T-7 (1.5')	Total/NA	Solid	8015B NM	62904
880-33440-33	T-7 (2')	Total/NA	Solid	8015B NM	62904
880-33440-34	T-7 (3')	Total/NA	Solid	8015B NM	62904
880-33440-35	T-7 (4')	Total/NA	Solid	8015B NM	62904
880-33440-36	T-8 (0-1')	Total/NA	Solid	8015B NM	62904
880-33440-37	T-8 (1.5')	Total/NA	Solid	8015B NM	62904
880-33440-38	T-8 (2')	Total/NA	Solid	8015B NM	62904
880-33440-39	T-8 (3')	Total/NA	Solid	8015B NM	62904

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QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 62860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-40	T-8 (4')	Total/NA	Solid	8015B NM	62904
MB 880-62904/1-A - IN3	Method Blank	Total/NA	Solid	8015B NM	62904
LCS 880-62904/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62904
LCSD 880-62904/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62904
880-33440-22 MS	T-5 (1.5')	Total/NA	Solid	8015B NM	62904
880-33440-22 MSD	T-5 (1.5')	Total/NA	Solid	8015B NM	62904

Analysis Batch: 62862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-41	T-9 (0-1')	Total/NA	Solid	8015B NM	62906
880-33440-42	T-9 (1.5')	Total/NA	Solid	8015B NM	62906
880-33440-43	T-9 (2')	Total/NA	Solid	8015B NM	62906
880-33440-44	T-9 (3')	Total/NA	Solid	8015B NM	62906
880-33440-45	T-9 (4')	Total/NA	Solid	8015B NM	62906
880-33440-46	T-10 (0-1')	Total/NA	Solid	8015B NM	62906
880-33440-47	T-10 (1.5')	Total/NA	Solid	8015B NM	62906
880-33440-48	T-10 (2')	Total/NA	Solid	8015B NM	62906
880-33440-49	T-10 (3')	Total/NA	Solid	8015B NM	62906
880-33440-50	T-10 (4')	Total/NA	Solid	8015B NM	62906
880-33440-51	T-11 (0-1')	Total/NA	Solid	8015B NM	62906
880-33440-52	T-11 (1.5')	Total/NA	Solid	8015B NM	62906
880-33440-53	T-11 (2')	Total/NA	Solid	8015B NM	62906
880-33440-54	T-11 (3')	Total/NA	Solid	8015B NM	62906
880-33440-55	T-11 (4')	Total/NA	Solid	8015B NM	62906
880-33440-56	T-12 (0-1')	Total/NA	Solid	8015B NM	62906
880-33440-57	T-12 (1.5')	Total/NA	Solid	8015B NM	62906
880-33440-58	T-12 (2')	Total/NA	Solid	8015B NM	62906
880-33440-59	T-12 (3')	Total/NA	Solid	8015B NM	62906
880-33440-60	T-12 (4')	Total/NA	Solid	8015B NM	62906
MB 880-62906/1-A	Method Blank	Total/NA	Solid	8015B NM	62906
LCS 880-62906/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62906
LCSD 880-62906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62906
880-33440-42 MS	T-9 (1.5')	Total/NA	Solid	8015B NM	62906
880-33440-42 MSD	T-9 (1.5')	Total/NA	Solid	8015B NM	62906

Analysis Batch: 62863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-61	T-13 (0-1')	Total/NA	Solid	8015B NM	62928
880-33440-62	T-13 (1.5')	Total/NA	Solid	8015B NM	62928
880-33440-63	T-13 (2')	Total/NA	Solid	8015B NM	62928
880-33440-64	T-13 (3')	Total/NA	Solid	8015B NM	62928
880-33440-65	T-13 (4')	Total/NA	Solid	8015B NM	62928
880-33440-66	T-14 (0-1')	Total/NA	Solid	8015B NM	62928
880-33440-67	T-14 (1.5')	Total/NA	Solid	8015B NM	62928
880-33440-68	T-14 (2')	Total/NA	Solid	8015B NM	62928
880-33440-69	T-14 (3')	Total/NA	Solid	8015B NM	62928
880-33440-70	T-14 (4')	Total/NA	Solid	8015B NM	62928
880-33440-71	T-15 (0-1')	Total/NA	Solid	8015B NM	62928
880-33440-72	T-15 (1.5')	Total/NA	Solid	8015B NM	62928
880-33440-73	T-15 (2')	Total/NA	Solid	8015B NM	62928
880-33440-74	T-15 (3')	Total/NA	Solid	8015B NM	62928

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QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 62863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-75	T-15 (4')	Total/NA	Solid	8015B NM	62928
MB 880-62928/1-A	Method Blank	Total/NA	Solid	8015B NM	62928
LCS 880-62928/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62928
LCSD 880-62928/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62928
880-33440-63 MS	T-13 (2')	Total/NA	Solid	8015B NM	62928
880-33440-63 MSD	T-13 (2')	Total/NA	Solid	8015B NM	62928

Analysis Batch: 62865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-1	T-1 (0-1')	Total/NA	Solid	8015B NM	62903
880-33440-2	T-1 (1.5')	Total/NA	Solid	8015B NM	62903
880-33440-3	T-1 (2')	Total/NA	Solid	8015B NM	62903
880-33440-4	T-1 (3')	Total/NA	Solid	8015B NM	62903
880-33440-5	T-1 (4')	Total/NA	Solid	8015B NM	62903
880-33440-6	T-2 (0-1')	Total/NA	Solid	8015B NM	62903
880-33440-7	T-2 (1.5')	Total/NA	Solid	8015B NM	62903
880-33440-8	T-2 (2')	Total/NA	Solid	8015B NM	62903
880-33440-9	T-2 (3')	Total/NA	Solid	8015B NM	62903
880-33440-10	T-2 (4')	Total/NA	Solid	8015B NM	62903
880-33440-11	T-3 (0-1')	Total/NA	Solid	8015B NM	62903
880-33440-12	T-3 (1.5')	Total/NA	Solid	8015B NM	62903
880-33440-13	T-3 (2')	Total/NA	Solid	8015B NM	62903
880-33440-14	T-3 (3')	Total/NA	Solid	8015B NM	62903
880-33440-15	T-3 (4')	Total/NA	Solid	8015B NM	62903
880-33440-16	T-4 (0-1')	Total/NA	Solid	8015B NM	62903
880-33440-17	T-4 (1.5')	Total/NA	Solid	8015B NM	62903
880-33440-18	T-4 (2')	Total/NA	Solid	8015B NM	62903
880-33440-19	T-4 (3')	Total/NA	Solid	8015B NM	62903
880-33440-20	T-4 (4')	Total/NA	Solid	8015B NM	62903
MB 880-62903/1-A	Method Blank	Total/NA	Solid	8015B NM	62903
LCS 880-62903/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62903
LCSD 880-62903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62903
880-33440-1 MS	T-1 (0-1')	Total/NA	Solid	8015B NM	62903
880-33440-1 MSD	T-1 (0-1')	Total/NA	Solid	8015B NM	62903

Prep Batch: 62903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-3	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-33440-4	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-33440-5	T-1 (4')	Total/NA	Solid	8015NM Prep	
880-33440-6	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-7	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-8	T-2 (2')	Total/NA	Solid	8015NM Prep	
880-33440-9	T-2 (3')	Total/NA	Solid	8015NM Prep	
880-33440-10	T-2 (4')	Total/NA	Solid	8015NM Prep	
880-33440-11	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-12	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-13	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-33440-14	T-3 (3')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 62903 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-15	T-3 (4')	Total/NA	Solid	8015NM Prep	
880-33440-16	T-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-17	T-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-18	T-4 (2')	Total/NA	Solid	8015NM Prep	
880-33440-19	T-4 (3')	Total/NA	Solid	8015NM Prep	
880-33440-20	T-4 (4')	Total/NA	Solid	8015NM Prep	
MB 880-62903/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62903/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33440-1 MS	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-1 MSD	T-1 (0-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 62904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-21	T-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-22	T-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-23	T-5 (2')	Total/NA	Solid	8015NM Prep	
880-33440-24	T-5 (3')	Total/NA	Solid	8015NM Prep	
880-33440-25	T-5 (4')	Total/NA	Solid	8015NM Prep	
880-33440-26	T-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-27	T-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-28	T-6 (2')	Total/NA	Solid	8015NM Prep	
880-33440-29	T-6 (3')	Total/NA	Solid	8015NM Prep	
880-33440-30	T-6 (4')	Total/NA	Solid	8015NM Prep	
880-33440-31	T-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-32	T-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-33	T-7 (2')	Total/NA	Solid	8015NM Prep	
880-33440-34	T-7 (3')	Total/NA	Solid	8015NM Prep	
880-33440-35	T-7 (4')	Total/NA	Solid	8015NM Prep	
880-33440-36	T-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-37	T-8 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-38	T-8 (2')	Total/NA	Solid	8015NM Prep	
880-33440-39	T-8 (3')	Total/NA	Solid	8015NM Prep	
880-33440-40	T-8 (4')	Total/NA	Solid	8015NM Prep	
MB 880-62904/1-A - IN3	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62904/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62904/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33440-22 MS	T-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-22 MSD	T-5 (1.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 62906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-41	T-9 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-42	T-9 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-43	T-9 (2')	Total/NA	Solid	8015NM Prep	
880-33440-44	T-9 (3')	Total/NA	Solid	8015NM Prep	
880-33440-45	T-9 (4')	Total/NA	Solid	8015NM Prep	
880-33440-46	T-10 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-47	T-10 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-48	T-10 (2')	Total/NA	Solid	8015NM Prep	
880-33440-49	T-10 (3')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 62906 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-50	T-10 (4')	Total/NA	Solid	8015NM Prep	
880-33440-51	T-11 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-52	T-11 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-53	T-11 (2')	Total/NA	Solid	8015NM Prep	
880-33440-54	T-11 (3')	Total/NA	Solid	8015NM Prep	
880-33440-55	T-11 (4')	Total/NA	Solid	8015NM Prep	
880-33440-56	T-12 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-57	T-12 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-58	T-12 (2')	Total/NA	Solid	8015NM Prep	
880-33440-59	T-12 (3')	Total/NA	Solid	8015NM Prep	
880-33440-60	T-12 (4')	Total/NA	Solid	8015NM Prep	
MB 880-62906/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62906/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33440-42 MS	T-9 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-42 MSD	T-9 (1.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 62928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-61	T-13 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-62	T-13 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-63	T-13 (2')	Total/NA	Solid	8015NM Prep	
880-33440-64	T-13 (3')	Total/NA	Solid	8015NM Prep	
880-33440-65	T-13 (4')	Total/NA	Solid	8015NM Prep	
880-33440-66	T-14 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-67	T-14 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-68	T-14 (2')	Total/NA	Solid	8015NM Prep	
880-33440-69	T-14 (3')	Total/NA	Solid	8015NM Prep	
880-33440-70	T-14 (4')	Total/NA	Solid	8015NM Prep	
880-33440-71	T-15 (0-1')	Total/NA	Solid	8015NM Prep	
880-33440-72	T-15 (1.5')	Total/NA	Solid	8015NM Prep	
880-33440-73	T-15 (2')	Total/NA	Solid	8015NM Prep	
880-33440-74	T-15 (3')	Total/NA	Solid	8015NM Prep	
880-33440-75	T-15 (4')	Total/NA	Solid	8015NM Prep	
MB 880-62928/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62928/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62928/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33440-63 MS	T-13 (2')	Total/NA	Solid	8015NM Prep	
880-33440-63 MSD	T-13 (2')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 62992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-33440-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-33440-3	T-1 (2')	Total/NA	Solid	8015 NM	
880-33440-4	T-1 (3')	Total/NA	Solid	8015 NM	
880-33440-5	T-1 (4')	Total/NA	Solid	8015 NM	
880-33440-6	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-33440-7	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-33440-8	T-2 (2')	Total/NA	Solid	8015 NM	
880-33440-9	T-2 (3')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 62992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-10	T-2 (4')	Total/NA	Solid	8015 NM	
880-33440-11	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-33440-12	T-3 (1.5')	Total/NA	Solid	8015 NM	
880-33440-13	T-3 (2')	Total/NA	Solid	8015 NM	
880-33440-14	T-3 (3')	Total/NA	Solid	8015 NM	
880-33440-15	T-3 (4')	Total/NA	Solid	8015 NM	
880-33440-16	T-4 (0-1')	Total/NA	Solid	8015 NM	
880-33440-17	T-4 (1.5')	Total/NA	Solid	8015 NM	
880-33440-18	T-4 (2')	Total/NA	Solid	8015 NM	
880-33440-19	T-4 (3')	Total/NA	Solid	8015 NM	
880-33440-20	T-4 (4')	Total/NA	Solid	8015 NM	
880-33440-21	T-5 (0-1')	Total/NA	Solid	8015 NM	
880-33440-22	T-5 (1.5')	Total/NA	Solid	8015 NM	
880-33440-23	T-5 (2')	Total/NA	Solid	8015 NM	
880-33440-24	T-5 (3')	Total/NA	Solid	8015 NM	
880-33440-25	T-5 (4')	Total/NA	Solid	8015 NM	
880-33440-26	T-6 (0-1')	Total/NA	Solid	8015 NM	
880-33440-27	T-6 (1.5')	Total/NA	Solid	8015 NM	
880-33440-28	T-6 (2')	Total/NA	Solid	8015 NM	
880-33440-29	T-6 (3')	Total/NA	Solid	8015 NM	
880-33440-30	T-6 (4')	Total/NA	Solid	8015 NM	
880-33440-31	T-7 (0-1')	Total/NA	Solid	8015 NM	
880-33440-32	T-7 (1.5')	Total/NA	Solid	8015 NM	
880-33440-33	T-7 (2')	Total/NA	Solid	8015 NM	
880-33440-34	T-7 (3')	Total/NA	Solid	8015 NM	
880-33440-35	T-7 (4')	Total/NA	Solid	8015 NM	
880-33440-36	T-8 (0-1')	Total/NA	Solid	8015 NM	
880-33440-37	T-8 (1.5')	Total/NA	Solid	8015 NM	
880-33440-38	T-8 (2')	Total/NA	Solid	8015 NM	
880-33440-39	T-8 (3')	Total/NA	Solid	8015 NM	
880-33440-40	T-8 (4')	Total/NA	Solid	8015 NM	
880-33440-41	T-9 (0-1')	Total/NA	Solid	8015 NM	
880-33440-42	T-9 (1.5')	Total/NA	Solid	8015 NM	
880-33440-43	T-9 (2')	Total/NA	Solid	8015 NM	
880-33440-44	T-9 (3')	Total/NA	Solid	8015 NM	
880-33440-45	T-9 (4')	Total/NA	Solid	8015 NM	
880-33440-46	T-10 (0-1')	Total/NA	Solid	8015 NM	
880-33440-47	T-10 (1.5')	Total/NA	Solid	8015 NM	
880-33440-48	T-10 (2')	Total/NA	Solid	8015 NM	
880-33440-49	T-10 (3')	Total/NA	Solid	8015 NM	
880-33440-50	T-10 (4')	Total/NA	Solid	8015 NM	
880-33440-51	T-11 (0-1')	Total/NA	Solid	8015 NM	
880-33440-52	T-11 (1.5')	Total/NA	Solid	8015 NM	
880-33440-53	T-11 (2')	Total/NA	Solid	8015 NM	
880-33440-54	T-11 (3')	Total/NA	Solid	8015 NM	
880-33440-55	T-11 (4')	Total/NA	Solid	8015 NM	
880-33440-56	T-12 (0-1')	Total/NA	Solid	8015 NM	
880-33440-57	T-12 (1.5')	Total/NA	Solid	8015 NM	
880-33440-58	T-12 (2')	Total/NA	Solid	8015 NM	
880-33440-59	T-12 (3')	Total/NA	Solid	8015 NM	
880-33440-60	T-12 (4')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 62992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-61	T-13 (0-1')	Total/NA	Solid	8015 NM	
880-33440-62	T-13 (1.5')	Total/NA	Solid	8015 NM	
880-33440-63	T-13 (2')	Total/NA	Solid	8015 NM	
880-33440-64	T-13 (3')	Total/NA	Solid	8015 NM	
880-33440-65	T-13 (4')	Total/NA	Solid	8015 NM	
880-33440-66	T-14 (0-1')	Total/NA	Solid	8015 NM	
880-33440-67	T-14 (1.5')	Total/NA	Solid	8015 NM	
880-33440-68	T-14 (2')	Total/NA	Solid	8015 NM	
880-33440-69	T-14 (3')	Total/NA	Solid	8015 NM	
880-33440-70	T-14 (4')	Total/NA	Solid	8015 NM	
880-33440-71	T-15 (0-1')	Total/NA	Solid	8015 NM	
880-33440-72	T-15 (1.5')	Total/NA	Solid	8015 NM	
880-33440-73	T-15 (2')	Total/NA	Solid	8015 NM	
880-33440-74	T-15 (3')	Total/NA	Solid	8015 NM	
880-33440-75	T-15 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 62890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-33440-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-33440-3	T-1 (2')	Soluble	Solid	DI Leach	
880-33440-4	T-1 (3')	Soluble	Solid	DI Leach	
880-33440-5	T-1 (4')	Soluble	Solid	DI Leach	
880-33440-6	T-2 (0-1')	Soluble	Solid	DI Leach	
880-33440-7	T-2 (1.5')	Soluble	Solid	DI Leach	
880-33440-8	T-2 (2')	Soluble	Solid	DI Leach	
880-33440-9	T-2 (3')	Soluble	Solid	DI Leach	
880-33440-10	T-2 (4')	Soluble	Solid	DI Leach	
880-33440-11	T-3 (0-1')	Soluble	Solid	DI Leach	
880-33440-12	T-3 (1.5')	Soluble	Solid	DI Leach	
880-33440-13	T-3 (2')	Soluble	Solid	DI Leach	
880-33440-14	T-3 (3')	Soluble	Solid	DI Leach	
880-33440-15	T-3 (4')	Soluble	Solid	DI Leach	
880-33440-16	T-4 (0-1')	Soluble	Solid	DI Leach	
880-33440-17	T-4 (1.5')	Soluble	Solid	DI Leach	
880-33440-18	T-4 (2')	Soluble	Solid	DI Leach	
880-33440-19	T-4 (3')	Soluble	Solid	DI Leach	
880-33440-20	T-4 (4')	Soluble	Solid	DI Leach	
MB 880-62890/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62890/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62890/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33440-1 MS	T-1 (0-1')	Soluble	Solid	DI Leach	
880-33440-1 MSD	T-1 (0-1')	Soluble	Solid	DI Leach	
880-33440-11 MS	T-3 (0-1')	Soluble	Solid	DI Leach	
880-33440-11 MSD	T-3 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 62894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-21	T-5 (0-1')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 62894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-22	T-5 (1.5')	Soluble	Solid	DI Leach	
880-33440-23	T-5 (2')	Soluble	Solid	DI Leach	
880-33440-24	T-5 (3')	Soluble	Solid	DI Leach	
880-33440-25	T-5 (4')	Soluble	Solid	DI Leach	
880-33440-26	T-6 (0-1')	Soluble	Solid	DI Leach	
880-33440-27	T-6 (1.5')	Soluble	Solid	DI Leach	
880-33440-28	T-6 (2')	Soluble	Solid	DI Leach	
880-33440-29	T-6 (3')	Soluble	Solid	DI Leach	
880-33440-30	T-6 (4')	Soluble	Solid	DI Leach	
880-33440-31	T-7 (0-1')	Soluble	Solid	DI Leach	
880-33440-32	T-7 (1.5')	Soluble	Solid	DI Leach	
880-33440-33	T-7 (2')	Soluble	Solid	DI Leach	
880-33440-34	T-7 (3')	Soluble	Solid	DI Leach	
880-33440-35	T-7 (4')	Soluble	Solid	DI Leach	
880-33440-36	T-8 (0-1')	Soluble	Solid	DI Leach	
880-33440-37	T-8 (1.5')	Soluble	Solid	DI Leach	
880-33440-38	T-8 (2')	Soluble	Solid	DI Leach	
880-33440-39	T-8 (3')	Soluble	Solid	DI Leach	
880-33440-40	T-8 (4')	Soluble	Solid	DI Leach	
MB 880-62894/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62894/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62894/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33440-21 MS	T-5 (0-1')	Soluble	Solid	DI Leach	
880-33440-21 MSD	T-5 (0-1')	Soluble	Solid	DI Leach	
880-33440-31 MS	T-7 (0-1')	Soluble	Solid	DI Leach	
880-33440-31 MSD	T-7 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 62895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-41	T-9 (0-1')	Soluble	Solid	DI Leach	
880-33440-42	T-9 (1.5')	Soluble	Solid	DI Leach	
880-33440-43	T-9 (2')	Soluble	Solid	DI Leach	
880-33440-44	T-9 (3')	Soluble	Solid	DI Leach	
880-33440-45	T-9 (4')	Soluble	Solid	DI Leach	
880-33440-46	T-10 (0-1')	Soluble	Solid	DI Leach	
880-33440-47	T-10 (1.5')	Soluble	Solid	DI Leach	
880-33440-48	T-10 (2')	Soluble	Solid	DI Leach	
880-33440-49	T-10 (3')	Soluble	Solid	DI Leach	
880-33440-50	T-10 (4')	Soluble	Solid	DI Leach	
880-33440-51	T-11 (0-1')	Soluble	Solid	DI Leach	
880-33440-52	T-11 (1.5')	Soluble	Solid	DI Leach	
880-33440-53	T-11 (2')	Soluble	Solid	DI Leach	
880-33440-54	T-11 (3')	Soluble	Solid	DI Leach	
880-33440-55	T-11 (4')	Soluble	Solid	DI Leach	
880-33440-56	T-12 (0-1')	Soluble	Solid	DI Leach	
880-33440-57	T-12 (1.5')	Soluble	Solid	DI Leach	
880-33440-58	T-12 (2')	Soluble	Solid	DI Leach	
880-33440-59	T-12 (3')	Soluble	Solid	DI Leach	
880-33440-60	T-12 (4')	Soluble	Solid	DI Leach	
MB 880-62895/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62895/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 62895 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-62895/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33440-41 MS	T-9 (0-1')	Soluble	Solid	DI Leach	
880-33440-41 MSD	T-9 (0-1')	Soluble	Solid	DI Leach	
880-33440-51 MS	T-11 (0-1')	Soluble	Solid	DI Leach	
880-33440-51 MSD	T-11 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 62896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-61	T-13 (0-1')	Soluble	Solid	DI Leach	
880-33440-62	T-13 (1.5')	Soluble	Solid	DI Leach	
880-33440-63	T-13 (2')	Soluble	Solid	DI Leach	
880-33440-64	T-13 (3')	Soluble	Solid	DI Leach	
880-33440-65	T-13 (4')	Soluble	Solid	DI Leach	
880-33440-66	T-14 (0-1')	Soluble	Solid	DI Leach	
880-33440-67	T-14 (1.5')	Soluble	Solid	DI Leach	
880-33440-68	T-14 (2')	Soluble	Solid	DI Leach	
880-33440-69	T-14 (3')	Soluble	Solid	DI Leach	
880-33440-70	T-14 (4')	Soluble	Solid	DI Leach	
880-33440-71	T-15 (0-1')	Soluble	Solid	DI Leach	
880-33440-72	T-15 (1.5')	Soluble	Solid	DI Leach	
880-33440-73	T-15 (2')	Soluble	Solid	DI Leach	
880-33440-74	T-15 (3')	Soluble	Solid	DI Leach	
880-33440-75	T-15 (4')	Soluble	Solid	DI Leach	
MB 880-62896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33440-61 MS	T-13 (0-1')	Soluble	Solid	DI Leach	
880-33440-61 MSD	T-13 (0-1')	Soluble	Solid	DI Leach	
880-33440-71 MS	T-15 (0-1')	Soluble	Solid	DI Leach	
880-33440-71 MSD	T-15 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 62939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-1	T-1 (0-1')	Soluble	Solid	300.0	62890
880-33440-2	T-1 (1.5')	Soluble	Solid	300.0	62890
880-33440-3	T-1 (2')	Soluble	Solid	300.0	62890
880-33440-4	T-1 (3')	Soluble	Solid	300.0	62890
880-33440-5	T-1 (4')	Soluble	Solid	300.0	62890
880-33440-6	T-2 (0-1')	Soluble	Solid	300.0	62890
880-33440-7	T-2 (1.5')	Soluble	Solid	300.0	62890
880-33440-8	T-2 (2')	Soluble	Solid	300.0	62890
880-33440-9	T-2 (3')	Soluble	Solid	300.0	62890
880-33440-10	T-2 (4')	Soluble	Solid	300.0	62890
880-33440-11	T-3 (0-1')	Soluble	Solid	300.0	62890
880-33440-12	T-3 (1.5')	Soluble	Solid	300.0	62890
880-33440-13	T-3 (2')	Soluble	Solid	300.0	62890
880-33440-14	T-3 (3')	Soluble	Solid	300.0	62890
880-33440-15	T-3 (4')	Soluble	Solid	300.0	62890
880-33440-16	T-4 (0-1')	Soluble	Solid	300.0	62890
880-33440-17	T-4 (1.5')	Soluble	Solid	300.0	62890
880-33440-18	T-4 (2')	Soluble	Solid	300.0	62890

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QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 62939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-19	T-4 (3')	Soluble	Solid	300.0	62890
880-33440-20	T-4 (4')	Soluble	Solid	300.0	62890
MB 880-62890/1-A	Method Blank	Soluble	Solid	300.0	62890
LCS 880-62890/2-A	Lab Control Sample	Soluble	Solid	300.0	62890
LCSD 880-62890/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62890
880-33440-1 MS	T-1 (0-1')	Soluble	Solid	300.0	62890
880-33440-1 MSD	T-1 (0-1')	Soluble	Solid	300.0	62890
880-33440-11 MS	T-3 (0-1')	Soluble	Solid	300.0	62890
880-33440-11 MSD	T-3 (0-1')	Soluble	Solid	300.0	62890

Analysis Batch: 63057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-21	T-5 (0-1')	Soluble	Solid	300.0	62894
880-33440-22	T-5 (1.5')	Soluble	Solid	300.0	62894
880-33440-23	T-5 (2')	Soluble	Solid	300.0	62894
880-33440-24	T-5 (3')	Soluble	Solid	300.0	62894
880-33440-25	T-5 (4')	Soluble	Solid	300.0	62894
880-33440-26	T-6 (0-1')	Soluble	Solid	300.0	62894
880-33440-27	T-6 (1.5')	Soluble	Solid	300.0	62894
880-33440-28	T-6 (2')	Soluble	Solid	300.0	62894
880-33440-29	T-6 (3')	Soluble	Solid	300.0	62894
880-33440-30	T-6 (4')	Soluble	Solid	300.0	62894
880-33440-31	T-7 (0-1')	Soluble	Solid	300.0	62894
880-33440-32	T-7 (1.5')	Soluble	Solid	300.0	62894
880-33440-33	T-7 (2')	Soluble	Solid	300.0	62894
880-33440-34	T-7 (3')	Soluble	Solid	300.0	62894
880-33440-35	T-7 (4')	Soluble	Solid	300.0	62894
880-33440-36	T-8 (0-1')	Soluble	Solid	300.0	62894
880-33440-37	T-8 (1.5')	Soluble	Solid	300.0	62894
880-33440-38	T-8 (2')	Soluble	Solid	300.0	62894
880-33440-39	T-8 (3')	Soluble	Solid	300.0	62894
880-33440-40	T-8 (4')	Soluble	Solid	300.0	62894
MB 880-62894/1-A	Method Blank	Soluble	Solid	300.0	62894
LCS 880-62894/2-A	Lab Control Sample	Soluble	Solid	300.0	62894
LCSD 880-62894/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62894
880-33440-21 MS	T-5 (0-1')	Soluble	Solid	300.0	62894
880-33440-21 MSD	T-5 (0-1')	Soluble	Solid	300.0	62894
880-33440-31 MS	T-7 (0-1')	Soluble	Solid	300.0	62894
880-33440-31 MSD	T-7 (0-1')	Soluble	Solid	300.0	62894

Analysis Batch: 63058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-41	T-9 (0-1')	Soluble	Solid	300.0	62895
880-33440-42	T-9 (1.5')	Soluble	Solid	300.0	62895
880-33440-43	T-9 (2')	Soluble	Solid	300.0	62895
880-33440-44	T-9 (3')	Soluble	Solid	300.0	62895
880-33440-45	T-9 (4')	Soluble	Solid	300.0	62895
880-33440-46	T-10 (0-1')	Soluble	Solid	300.0	62895
880-33440-47	T-10 (1.5')	Soluble	Solid	300.0	62895
880-33440-48	T-10 (2')	Soluble	Solid	300.0	62895
880-33440-49	T-10 (3')	Soluble	Solid	300.0	62895

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QC Association Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 63058 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-50	T-10 (4')	Soluble	Solid	300.0	62895
880-33440-51	T-11 (0-1')	Soluble	Solid	300.0	62895
880-33440-52	T-11 (1.5')	Soluble	Solid	300.0	62895
880-33440-53	T-11 (2')	Soluble	Solid	300.0	62895
880-33440-54	T-11 (3')	Soluble	Solid	300.0	62895
880-33440-55	T-11 (4')	Soluble	Solid	300.0	62895
880-33440-56	T-12 (0-1')	Soluble	Solid	300.0	62895
880-33440-57	T-12 (1.5')	Soluble	Solid	300.0	62895
880-33440-58	T-12 (2')	Soluble	Solid	300.0	62895
880-33440-59	T-12 (3')	Soluble	Solid	300.0	62895
880-33440-60	T-12 (4')	Soluble	Solid	300.0	62895
MB 880-62895/1-A	Method Blank	Soluble	Solid	300.0	62895
LCS 880-62895/2-A	Lab Control Sample	Soluble	Solid	300.0	62895
LCSD 880-62895/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62895
880-33440-41 MS	T-9 (0-1')	Soluble	Solid	300.0	62895
880-33440-41 MSD	T-9 (0-1')	Soluble	Solid	300.0	62895
880-33440-51 MS	T-11 (0-1')	Soluble	Solid	300.0	62895
880-33440-51 MSD	T-11 (0-1')	Soluble	Solid	300.0	62895

Analysis Batch: 63063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33440-61	T-13 (0-1')	Soluble	Solid	300.0	62896
880-33440-62	T-13 (1.5')	Soluble	Solid	300.0	62896
880-33440-63	T-13 (2')	Soluble	Solid	300.0	62896
880-33440-64	T-13 (3')	Soluble	Solid	300.0	62896
880-33440-65	T-13 (4')	Soluble	Solid	300.0	62896
880-33440-66	T-14 (0-1')	Soluble	Solid	300.0	62896
880-33440-67	T-14 (1.5')	Soluble	Solid	300.0	62896
880-33440-68	T-14 (2')	Soluble	Solid	300.0	62896
880-33440-69	T-14 (3')	Soluble	Solid	300.0	62896
880-33440-70	T-14 (4')	Soluble	Solid	300.0	62896
880-33440-71	T-15 (0-1')	Soluble	Solid	300.0	62896
880-33440-72	T-15 (1.5')	Soluble	Solid	300.0	62896
880-33440-73	T-15 (2')	Soluble	Solid	300.0	62896
880-33440-74	T-15 (3')	Soluble	Solid	300.0	62896
880-33440-75	T-15 (4')	Soluble	Solid	300.0	62896
MB 880-62896/1-A	Method Blank	Soluble	Solid	300.0	62896
LCS 880-62896/2-A	Lab Control Sample	Soluble	Solid	300.0	62896
LCSD 880-62896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62896
880-33440-61 MS	T-13 (0-1')	Soluble	Solid	300.0	62896
880-33440-61 MSD	T-13 (0-1')	Soluble	Solid	300.0	62896
880-33440-71 MS	T-15 (0-1')	Soluble	Solid	300.0	62896
880-33440-71 MSD	T-15 (0-1')	Soluble	Solid	300.0	62896

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Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (0-1')
Date Collected: 09/18/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-1
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			5.00 g	5 mL	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/20/23 22:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/20/23 22:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 12:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 21:37	SMC	EET MID

Client Sample ID: T-1 (1.5')
Date Collected: 09/18/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-2
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			5.02 g	5 mL	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/20/23 22:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/20/23 22:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 21:57	SMC	EET MID

Client Sample ID: T-1 (2')
Date Collected: 09/18/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-3
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			5.03 g	5 mL	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/20/23 22:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/20/23 22:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 13:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 13:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 22:03	SMC	EET MID

Client Sample ID: T-1 (3')
Date Collected: 09/18/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-4
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			5.05 g	5 mL	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/20/23 23:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/20/23 23:13	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (3')

Lab Sample ID: 880-33440-4

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			62992	09/20/23 14:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 14:13	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 22:10	SMC	EET MID

Client Sample ID: T-1 (4')

Lab Sample ID: 880-33440-5

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/20/23 23:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/20/23 23:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 14:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 14:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 22:17	SMC	EET MID

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-33440-6

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/20/23 23:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/20/23 23:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 14:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 14:58	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 22:37	SMC	EET MID

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-33440-7

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 00:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 00:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 15:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 15:19	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-33440-7

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 22:43	SMC	EET MID

Client Sample ID: T-2 (2')

Lab Sample ID: 880-33440-8

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 00:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 00:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 15:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 15:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 22:50	SMC	EET MID

Client Sample ID: T-2 (3')

Lab Sample ID: 880-33440-9

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 00:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 00:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 16:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 22:57	SMC	EET MID

Client Sample ID: T-2 (4')

Lab Sample ID: 880-33440-10

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 01:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 01:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 16:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 16:25	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 23:03	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-3 (0-1')
Date Collected: 09/18/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-11
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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 02:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 02:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 17:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 17:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 23:10	SMC	EET MID

Client Sample ID: T-3 (1.5')
Date Collected: 09/18/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-12
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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 02:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 02:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 17:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 17:34	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 23:30	SMC	EET MID

Client Sample ID: T-3 (2')
Date Collected: 09/18/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-13
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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 03:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 03:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 17:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 17:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 23:37	SMC	EET MID

Client Sample ID: T-3 (3')
Date Collected: 09/18/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-14
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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 03:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 03:38	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-3 (3')

Lab Sample ID: 880-33440-14

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			62992	09/20/23 18:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 18:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/20/23 23:57	SMC	EET MID

Client Sample ID: T-3 (4')

Lab Sample ID: 880-33440-15

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 03:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 03:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 18:41	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/21/23 00:03	SMC	EET MID

Client Sample ID: T-4 (0-1')

Lab Sample ID: 880-33440-16

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 04:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 04:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 19:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 19:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/21/23 00:10	SMC	EET MID

Client Sample ID: T-4 (1.5')

Lab Sample ID: 880-33440-17

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 04:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 04:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 19:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 19:25	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-4 (1.5')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/21/23 00:17	SMC	EET MID

Client Sample ID: T-4 (2')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 05:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 05:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 19:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 19:47	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/21/23 00:24	SMC	EET MID

Client Sample ID: T-4 (3')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 05:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 05:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 20:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 20:08	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/21/23 00:30	SMC	EET MID

Client Sample ID: T-4 (4')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	62884	09/20/23 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62867	09/21/23 05:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 05:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 20:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62903	09/20/23 11:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62865	09/20/23 20:31	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62890	09/20/23 10:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62939	09/21/23 00:37	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-5 (0-1')

Lab Sample ID: 880-33440-21

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 12:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 14:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 14:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 11:11	SMC	EET MID

Client Sample ID: T-5 (1.5')

Lab Sample ID: 880-33440-22

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 12:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 12:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 12:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 11:28	SMC	EET MID

Client Sample ID: T-5 (2')

Lab Sample ID: 880-33440-23

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 13:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 14:48	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 11:34	SMC	EET MID

Client Sample ID: T-5 (3')

Lab Sample ID: 880-33440-24

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 13:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 13:37	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-5 (3')

Lab Sample ID: 880-33440-24

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			62992	09/20/23 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 15:13	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 11:40	SMC	EET MID

Client Sample ID: T-5 (4')

Lab Sample ID: 880-33440-25

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 14:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 14:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 15:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 15:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 11:46	SMC	EET MID

Client Sample ID: T-6 (0-1')

Lab Sample ID: 880-33440-26

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 14:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 14:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 16:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 16:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 12:04	SMC	EET MID

Client Sample ID: T-6 (1.5')

Lab Sample ID: 880-33440-27

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 14:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 14:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 16:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 16:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-6 (1.5')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-27

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			5.02 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 12:09	SMC	EET MID

Client Sample ID: T-6 (2')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-28

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			4.97 g	5 mL	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 15:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 16:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 16:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 12:15	SMC	EET MID

Client Sample ID: T-6 (3')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-29

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			4.99 g	5 mL	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 15:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 17:14	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 12:21	SMC	EET MID

Client Sample ID: T-6 (4')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-30

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			5.02 g	5 mL	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 16:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 17:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 17:38	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 12:27	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-7 (0-1')

Lab Sample ID: 880-33440-31

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 17:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 18:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 18:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 12:33	SMC	EET MID

Client Sample ID: T-7 (1.5')

Lab Sample ID: 880-33440-32

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 18:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 18:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 18:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 18:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 12:50	SMC	EET MID

Client Sample ID: T-7 (2')

Lab Sample ID: 880-33440-33

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 18:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 19:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 19:10	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 12:56	SMC	EET MID

Client Sample ID: T-7 (3')

Lab Sample ID: 880-33440-34

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 19:09	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-7 (3')

Lab Sample ID: 880-33440-34

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			62992	09/20/23 19:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 19:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 13:14	SMC	EET MID

Client Sample ID: T-7 (4')

Lab Sample ID: 880-33440-35

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 19:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 19:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 19:58	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 13:19	SMC	EET MID

Client Sample ID: T-8 (0-1')

Lab Sample ID: 880-33440-36

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 20:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 20:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 20:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 20:24	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 13:25	SMC	EET MID

Client Sample ID: T-8 (1.5')

Lab Sample ID: 880-33440-37

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 20:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 20:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 20:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 20:52	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-8 (1.5')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-37

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			5.01 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 13:31	SMC	EET MID

Client Sample ID: T-8 (2')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-38

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			5.03 g	5 mL	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 20:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 20:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 21:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 13:37	SMC	EET MID

Client Sample ID: T-8 (3')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-39

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			4.99 g	5 mL	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 21:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 21:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 21:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 21:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 13:43	SMC	EET MID

Client Sample ID: T-8 (4')

Date Collected: 09/18/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-40

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			4.98 g	5 mL	62885	09/20/23 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/21/23 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 21:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 22:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	62904	09/20/23 11:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62860	09/20/23 22:00	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62894	09/20/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63057	09/21/23 13:48	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-9 (0-1')

Lab Sample ID: 880-33440-41

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	63060	09/22/23 11:10	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	63041	09/23/23 05:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/23/23 05:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 14:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 14:24	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 11:23	SMC	EET MID

Client Sample ID: T-9 (1.5')

Lab Sample ID: 880-33440-42

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 11:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 11:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 12:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 12:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 11:43	SMC	EET MID

Client Sample ID: T-9 (2')

Lab Sample ID: 880-33440-43

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 14:48	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 11:49	SMC	EET MID

Client Sample ID: T-9 (3')

Lab Sample ID: 880-33440-44

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 12:34	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-9 (3')

Lab Sample ID: 880-33440-44

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			62992	09/20/23 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 15:13	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 11:56	SMC	EET MID

Client Sample ID: T-9 (4')

Lab Sample ID: 880-33440-45

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 15:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 15:39	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 12:03	SMC	EET MID

Client Sample ID: T-10 (0-1')

Lab Sample ID: 880-33440-46

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 16:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 16:02	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 12:23	SMC	EET MID

Client Sample ID: T-10 (1.5')

Lab Sample ID: 880-33440-47

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 13:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 16:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 16:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-10 (1.5')

Lab Sample ID: 880-33440-47

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 12:29	SMC	EET MID

Client Sample ID: T-10 (2')

Lab Sample ID: 880-33440-48

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 16:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 16:50	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 12:36	SMC	EET MID

Client Sample ID: T-10 (3')

Lab Sample ID: 880-33440-49

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 14:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 14:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 17:14	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 12:43	SMC	EET MID

Client Sample ID: T-10 (4')

Lab Sample ID: 880-33440-50

Date Collected: 09/18/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 14:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 17:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 17:38	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 12:50	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-11 (0-1')

Lab Sample ID: 880-33440-51

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 16:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 18:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 18:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 12:56	SMC	EET MID

Client Sample ID: T-11 (1.5')

Lab Sample ID: 880-33440-52

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 16:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 18:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 18:47	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 13:16	SMC	EET MID

Client Sample ID: T-11 (2')

Lab Sample ID: 880-33440-53

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 19:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 19:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 13:23	SMC	EET MID

Client Sample ID: T-11 (3')

Lab Sample ID: 880-33440-54

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 17:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 17:01	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-11 (3')

Lab Sample ID: 880-33440-54

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			62992	09/20/23 19:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 19:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 13:43	SMC	EET MID

Client Sample ID: T-11 (4')

Lab Sample ID: 880-33440-55

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 17:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 19:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 19:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 13:50	SMC	EET MID

Client Sample ID: T-12 (0-1')

Lab Sample ID: 880-33440-56

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 17:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 20:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 20:24	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 13:56	SMC	EET MID

Client Sample ID: T-12 (1.5')

Lab Sample ID: 880-33440-57

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62886	09/20/23 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62964	09/21/23 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/21/23 18:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 20:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 20:52	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-12 (1.5')

Lab Sample ID: 880-33440-57

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 14:03	SMC	EET MID

Client Sample ID: T-12 (2')

Lab Sample ID: 880-33440-58

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62985	09/21/23 12:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62965	09/22/23 08:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 08:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 21:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 14:10	SMC	EET MID

Client Sample ID: T-12 (3')

Lab Sample ID: 880-33440-59

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	62985	09/21/23 12:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62965	09/22/23 08:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 08:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 21:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 21:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 14:16	SMC	EET MID

Client Sample ID: T-12 (4')

Lab Sample ID: 880-33440-60

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	63060	09/22/23 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63041	09/23/23 03:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/23/23 03:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 22:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	62906	09/20/23 11:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62862	09/20/23 22:00	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62895	09/20/23 10:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63058	09/21/23 14:23	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-13 (0-1')

Lab Sample ID: 880-33440-61

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 01:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 01:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 23:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 23:25	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 18:44	SMC	EET MID

Client Sample ID: T-13 (1.5')

Lab Sample ID: 880-33440-62

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 01:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 01:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 23:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 23:46	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 19:03	SMC	EET MID

Client Sample ID: T-13 (2')

Lab Sample ID: 880-33440-63

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 02:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 02:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/20/23 22:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/20/23 22:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 19:10	SMC	EET MID

Client Sample ID: T-13 (3')

Lab Sample ID: 880-33440-64

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 02:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 02:47	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-13 (3')

Lab Sample ID: 880-33440-64

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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			62992	09/21/23 00:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 00:07	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 19:17	SMC	EET MID

Client Sample ID: T-13 (4')

Lab Sample ID: 880-33440-65

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 03:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/21/23 00:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 00:28	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 19:23	SMC	EET MID

Client Sample ID: T-14 (0-1')

Lab Sample ID: 880-33440-66

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 03:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 03:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/21/23 00:49	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 00:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 19:43	SMC	EET MID

Client Sample ID: T-14 (1.5')

Lab Sample ID: 880-33440-67

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 04:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 04:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/21/23 01:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 01:10	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-14 (1.5')

Date Collected: 09/19/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-67

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			4.95 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 19:50	SMC	EET MID

Client Sample ID: T-14 (2')

Date Collected: 09/19/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-68

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 04:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 04:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/21/23 01:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 01:32	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 19:56	SMC	EET MID

Client Sample ID: T-14 (3')

Date Collected: 09/19/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-69

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 04:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 04:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/21/23 01:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 01:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 20:03	SMC	EET MID

Client Sample ID: T-14 (4')

Date Collected: 09/19/23 00:00

Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-70

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 05:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 05:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/21/23 02:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 02:14	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 20:10	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-15 (0-1')

Lab Sample ID: 880-33440-71

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 07:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 07:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/21/23 02:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 02:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 20:16	SMC	EET MID

Client Sample ID: T-15 (1.5')

Lab Sample ID: 880-33440-72

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 07:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 07:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/21/23 03:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 03:17	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 20:36	SMC	EET MID

Client Sample ID: T-15 (2')

Lab Sample ID: 880-33440-73

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 07:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 07:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/21/23 03:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 03:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 20:43	SMC	EET MID

Client Sample ID: T-15 (3')

Lab Sample ID: 880-33440-74

Date Collected: 09/19/23 00:00

Matrix: Solid

Date Received: 09/20/23 09:25

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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 08:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 08:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Client Sample ID: T-15 (3')
Date Collected: 09/19/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-74
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			62992	09/21/23 03:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 03:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 21:02	SMC	EET MID

Client Sample ID: T-15 (4')
Date Collected: 09/19/23 00:00
Date Received: 09/20/23 09:25

Lab Sample ID: 880-33440-75
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	62887	09/20/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62963	09/22/23 08:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62974	09/22/23 08:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			62992	09/21/23 04:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62928	09/20/23 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62863	09/21/23 04:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62896	09/20/23 10:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63063	09/21/23 21:09	SMC	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: Heartthrob 17 CTB

Job ID: 880-33440-1
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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
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: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33440-1	T-1 (0-1')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-2	T-1 (1.5')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-3	T-1 (2')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-4	T-1 (3')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-5	T-1 (4')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-6	T-2 (0-1')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-7	T-2 (1.5')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-8	T-2 (2')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-9	T-2 (3')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-10	T-2 (4')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-11	T-3 (0-1')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-12	T-3 (1.5')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-13	T-3 (2')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-14	T-3 (3')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-15	T-3 (4')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-16	T-4 (0-1')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-17	T-4 (1.5')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-18	T-4 (2')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-19	T-4 (3')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-20	T-4 (4')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-21	T-5 (0-1')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-22	T-5 (1.5')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-23	T-5 (2')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-24	T-5 (3')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-25	T-5 (4')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-26	T-6 (0-1')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-27	T-6 (1.5')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-28	T-6 (2')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-29	T-6 (3')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-30	T-6 (4')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-31	T-7 (0-1')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-32	T-7 (1.5')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-33	T-7 (2')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-34	T-7 (3')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-35	T-7 (4')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-36	T-8 (0-1')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-37	T-8 (1.5')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-38	T-8 (2')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-39	T-8 (3')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-40	T-8 (4')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-41	T-9 (0-1')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-42	T-9 (1.5')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-43	T-9 (2')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-44	T-9 (3')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-45	T-9 (4')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-46	T-10 (0-1')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-47	T-10 (1.5')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-48	T-10 (2')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-49	T-10 (3')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-50	T-10 (4')	Solid	09/18/23 00:00	09/20/23 09:25
880-33440-51	T-11 (0-1')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-52	T-11 (1.5')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-53	T-11 (2')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-54	T-11 (3')	Solid	09/19/23 00:00	09/20/23 09:25

Sample Summary

Client: Carmona Resources
Project/Site: Heartthrob 17 CTB

Job ID: 880-33440-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33440-55	T-11 (4')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-56	T-12 (0-1')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-57	T-12 (1.5')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-58	T-12 (2')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-59	T-12 (3')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-60	T-12 (4')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-61	T-13 (0-1')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-62	T-13 (1.5')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-63	T-13 (2')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-64	T-13 (3')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-65	T-13 (4')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-66	T-14 (0-1')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-67	T-14 (1.5')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-68	T-14 (2')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-69	T-14 (3')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-70	T-14 (4')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-71	T-15 (0-1')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-72	T-15 (1.5')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-73	T-15 (2')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-74	T-15 (3')	Solid	09/19/23 00:00	09/20/23 09:25
880-33440-75	T-15 (4')	Solid	09/19/23 00:00	09/20/23 09:25

Chain of Custody



880-33440 Chain of Custody

Page 1 of 8

Project Manager	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 415	Address	5509 Champions Dr
City State ZIP	Midland TX 79701	City State ZIP	Midland Tx 79706
Phone	432-813-6823	Email	Todd Wells@eogresources.com

Project Name		Heathrob 17 CTB	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number	1179	☐ Routine	☒ Rush													None NO	DI Water H ₂ O	
Project Location	Lea County New Mexico	Due Date	72 Hrs													Cool Cool	MeOH Me	
Sampler's Name	JR															HCL, HC	HNO ₃ HN	
PO #																H ₂ SO ₄ H ₂	NaOH Na	

SAMPLE RECEIPT		Temp Blank	Yes ☒ No ☐	Thermometer ID	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐	Parameters										Preservative Codes	
Received Intact	Yes ☒ No ☐							BTX 8021B										Cool Cool	
Cooler Custody Seals	Yes ☒ No ☐							TPH 8015M (GRO + DRO + MRO)										HCL, HC	
Sample Custody Seals	Yes ☒ No ☐							Chloride 300.0										H ₂ SO ₄ H ₂	
Total Containers	Yes ☒ No ☐																	h ₃ PO ₄ HP	

Work Order Comments		Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Iperfund ☐	
		State of Project	
		Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
		Deliverables EDD ☐ ADAPT ☐ Other ☐	

Project Name		Heathrob 17 CTB		Turn Around			Pres. Code	ANALYSIS REQUEST										Preservative Codes	
Project Number	1179	☐ Routine	☒ Rush														None NO	DI Water H ₂ O	
Project Location	Lee County New Mexico	Due Date		72 Hrs													Cool Cool	MeOH Me	
Sampler's Name.		JR																	
PO #.																			
SAMPLE RECEIPT		Temp Blank.	Yes ☒ No ☒	Wet Ice.	Yes ☒ No ☒														
Received Intact.		Yes ☒ No ☒	Thermometer ID																
Cooler Custody Seals		Yes ☒ No ☒	Correction Factor																
Sample Custody Seals.		Yes ☒ No ☒	Temperature Reading																
Total Containers.		Corrected Temperature																	
Sample Identification		Date	Time	Soil	Water	Grab/ Comp	# of Cont											Sample Comments	
T-1 (0-1')		9/18/2023		X		Grab	1	X	X	X									
T-1 (1-5)		9/18/2023		X		Grab	1	X	X	X									
T-1 (2')		9/18/2023		X		Grab	1	X	X	X									
T-1 (3')		9/18/2023		X		Grab	1	X	X	X									
T-1 (4)		9/18/2023		X		Grab	1	X	X	X									
T-2 (0-1')		9/18/2023		X		Grab	1	X	X	X									
T-2 (1-5)		9/18/2023		X		Grab	1	X	X	X									
T-2 (2)		9/18/2023		X		Grab	1	X	X	X									
T-2 (3)		9/18/2023		X		Grab	1	X	X	X									
T-2 (4)		9/18/2023		X		Grab	1	X	X	X									

Comments Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by (Signature)		Date/Time	Received by (Signature)		Date/Time
		9-20-23			

Chain of Custody

Work Order No: 23440

Page 2 of 8

Project Manager	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 415	Address	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland Tx 79706
Phone	432-813-6823	Email	Todd Wells@eogresources.com

Work Order Comments	
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RC ☐ Inland ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Hearthrob 17 CTB		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number	1179		☐ Routine	☐ Rush														None NO Cool Cool HCL HC H ₂ SO ₄ H ₂ H ₃ PO ₄ HP NaHSO ₄ NABIS Na ₂ S ₂ O ₃ NaSO ₃ Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SPC					
Project Location	Lea County New Mexico		Due Date	72 Hrs																			
Sampler's Name	JR																						
PO #																							
SAMPLE RECEIPT		Temp Blank	Yes No	Thermometer ID	Wet Ice	Yes No																	
Received Intact		Yes No	Correction Factor																				
Cooler Custody Seals		Yes No	Temperature Reading																				
Sample Custody Seals		Yes No	Corrected Temperature																				
Total Containers																							
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont															Sample Comments	
T-3 (0-1')		9/18/2023		X		Grab	1	X	X	X													
T-3 (1-5')		9/18/2023		X		Grab	1	X	X	X													
T-3 (2')		9/18/2023		X		Grab	1	X	X	X													
T-3 (3')		9/18/2023		X		Grab	1	X	X	X													
T-3 (4')		9/18/2023		X		Grab	1	X	X	X													
T-4 (0-1')		9/18/2023		X		Grab	1	X	X	X													
T-4 (1-5')		9/18/2023		X		Grab	1	X	X	X													
T-4 (2')		9/18/2023		X		Grab	1	X	X	X													
T-4 (3')		9/18/2023		X		Grab	1	X	X	X													
T-4 (4')		9/18/2023		X		Grab	1	X	X	X													

Comments Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

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Work Order No: 2344D

Page 3 of 8

Project Manager		Conner Moehring		Bill to: (if different)		Todd Wells	
Company Name		Carmona Resources		Company Name:		EOG Resources	
Address:		310 W Wall St Ste 415		Address:		5509 Champions Dr	
City, State ZIP		Midland, TX 79701		City State ZIP		Midland TX 79706	
Phone		432-813-6823		Email: Todd Wells@eogresources.com			

Project Name		Hearthrob 17 CTB		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number		1179		☐ Routine ☒ Rush																		None NO DI Water H ₂ O	
Project Location		Lea County New Mexico		Due Date		72 Hrs																Cool Cool MeOH Me	
Sampler's Name		JR																				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	Parameters												Sample Comments	
T-5 (0-1')		9/18/2023		X		Grab	1	BTX 8021B													
T-5 (1-5')		9/18/2023		X		Grab	1	TPH 8015M (GRO + DRO + MRO)													
T-5 (2)		9/18/2023		X		Grab	1	Chloride 300.0													
T-5 (3)		9/18/2023		X		Grab	1														
T-5 (4)		9/18/2023		X		Grab	1														
T-6 (0-1')		9/18/2023		X		Grab	1														
T-6 (1-5')		9/18/2023		X		Grab	1														
T-6 (2)		9/18/2023		X		Grab	1														
T-6 (3)		9/18/2023		X		Grab	1														
T-6 (4)		9/18/2023		X		Grab	1														

Comments Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

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		9/20/23				9/25/23	

Work Order Comments

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

State of Project:

Reporting Level I ☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADAPT ☐ Other

Chain of Custody

Work Order No: 33440

Page 4 of 8

Project Manager	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 415	Address	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland TX 79706
Phone	432-813-6823	Email	Todd Wells@eogresources.com

Program: UST/PRP ☐ PRP ☐ from fields ☐ RC ☐ Inertund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	Deliverables EDD ☐ ADAPT ☐ Other ☐

Project Name	Heaththrob 17 CTB			Turn Around			Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number	1179			☐ Routine ☒ Rush													None NO	DI Water H ₂ O					
Project Location	Lea County New Mexico			Due Date	72 Hrs												Cool Cool	MeOH Me					
Sampler's Name	JR																HCL HC	HNO ₃ HN					
PO #:																	H ₂ SO ₄ H ₂	NaOH Na					
SAMPLE RECEIPT	Temp Blank	Yes	No	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 S APC							
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments			
T-7 (0-1)		9/18/2023		X		Grab	1	X	X	X													
T-7 (1 5)		9/18/2023		X		Grab	1	X	X	X													
T-7 (2)		9/18/2023		X		Grab	1	X	X	X													
T-7 (3)		9/18/2023		X		Grab	1	X	X	X													
T-7 (4)		9/18/2023		X		Grab	1	X	X	X													
T-8 (0-1)		9/18/2023		X		Grab	1	X	X	X													
T-8 (1 5)		9/18/2023		X		Grab	1	X	X	X													
T-8 (2)		9/18/2023		X		Grab	1	X	X	X													
T-8 (3)		9/18/2023		X		Grab	1	X	X	X													
T-8 (4)		9/18/2023		X		Grab	1	X	X	X													

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

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Chain of Custody

Work Order No: 33440

Page 5 of 8

Project Manager	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 415	Address	5509 Champions Dr
City, State ZIP	Midland TX 79701	City State ZIP	Midland Tx 79706
Phone	432-813-6823	Email	Todd_Wells@eogresources.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Refund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Heartthrob 17 CTB		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number	1179		☐ Routine	☒ Rush														None NO	DI Water H ₂ O	
Project Location	Lea County New Mexico		Due Date	72 Hrs														Cool Cool	MeOH Me	
Sampler's Name	JR																	HCL HC	HNO ₃ HN	
PO #:																		H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT	Temp Blank	Yes No	Thermometer ID:	Yes No	Wet Ice	Yes No													H ₃ PO ₄ HP	
Received Inact	Yes No	N/A	Correction Factor																NaHSO ₄ NABIS	
Cooler Custody Seals	Yes No	N/A	Temperature Reading																Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes No	N/A	Corrected Temperature																Zn Acetate+NaOH Zn	
Total Containers:																			NaOH+Ascorbic Acid SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
T-9 (0-1')	9/18/2023		X		Grab	1	X	X	X											
T-9 (1'5')	9/18/2023		X		Grab	1	X	X	X											
T-9 (2')	9/18/2023		X		Grab	1	X	X	X											
T-9 (3')	9/18/2023		X		Grab	1	X	X	X											
T-9 (4')	9/18/2023		X		Grab	1	X	X	X											
T-10 (0-1')	9/18/2023		X		Grab	1	X	X	X											
T-10 (1'5')	9/18/2023		X		Grab	1	X	X	X											
T-10 (2')	9/18/2023		X		Grab	1	X	X	X											
T-10 (3')	9/18/2023		X		Grab	1	X	X	X											
T-10 (4')	9/18/2023		X		Grab	1	X	X	X											

Comments Email to Mike Carmona / mcarmona@carmonarresources.com and Conner Moehring / Cmoehring@carmonarresources.com

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Cair of Custody

Work Order No: 33440

Page 6 of 8

Project Manager	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 415	Address	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City State ZIP	Midland Tx 79706
Phone	432-813-6823	Email	Todd Wells@eoqresources.com

Work Order Comments	
Program: UST/PST	PRP
State of Project:	RC
Reporting Level II	Level III
Deliverables EDO	ADAPT
Other	

Project Name		Hearthrob 17 CTB		Turn Around			Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number	1179	☐ Routine	☒ Rush	Due Date	72 Hrs	None NO		DI Water H ₂ O													
Project Location	Lea County New Mexico					Cool Cool	MeOH Me														
Sampler's Name	JR					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	
T-11 (0-1')		9/19/2023		X		Grab	1	X	X	X											
T-11 (1-5)		9/19/2023		X		Grab	1	X	X	X											
T-11 (2)		9/19/2023		X		Grab	1	X	X	X											
T-11 (3)		9/19/2023		X		Grab	1	X	X	X											
T-11 (4)		9/19/2023		X		Grab	1	X	X	X											
T-12 (0-1)		9/19/2023		X		Grab	1	X	X	X											
T-12 (1-5)		9/19/2023		X		Grab	1	X	X	X											
T-12 (2)		9/19/2023		X		Grab	1	X	X	X											
T-12 (3)		9/19/2023		X		Grab	1	X	X	X											
T-12 (4)		9/19/2023		X		Grab	1	X	X	X											

Comments: Email to Mike Carmona / mcarmona@carmonarresources.com and Conner Moehring / Cmoehring@carmonarresources.com

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Chain of Custody

Work Order No: 33440

Page 7 of 8

Project Manager	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 415	Address	5509 Champions Dr
City State ZIP	Midland, TX 79701	City State ZIP	Midland Tx 79706
Phone	432-813-6823	Email	Todd Wells@eoqresources.com

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	

Project Name	Hearthrob 17 CTB		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number	1179		☐ Routine	☐ Rush		None NO Cool Cool HCL HC H ₂ SO ₄ H ₂ H ₃ PO ₄ HP NaHSO ₄ NABIS Na ₂ S ₂ O ₃ NaSO ₃ Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SAPC															
Project Location	Lea County New Mexico		Due Date	72 Hrs																	
Sampler's Name	JR																				
PO #:																					
SAMPLE RECEIPT		Temp Blank	Yes No	Thermometer ID	Yes No																
Received Inact:		Yes No	N/A	Correction Factor																	
Cooler Custody Seals		Yes No	N/A	Temperature Reading																	
Sample Custody Seals		Yes No	N/A	Corrected Temperature																	
Total Containers:																					
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
T-13 (0-1')		9/19/2023		X		Grab	1	X	X	X	X										
T-13 (1-5)		9/19/2023		X		Grab	1	X	X	X	X										
T-13 (2)		9/19/2023		X		Grab	1	X	X	X	X										
T-13 (3)		9/19/2023		X		Grab	1	X	X	X	X										
T-13 (4)		9/19/2023		X		Grab	1	X	X	X	X										
T-14 (0-1')		9/19/2023		X		Grab	1	X	X	X	X										
T-14 (1-5)		9/19/2023		X		Grab	1	X	X	X	X										
T-14 (2)		9/19/2023		X		Grab	1	X	X	X	X										
T-14 (3)		9/19/2023		X		Grab	1	X	X	X	X										
T-14 (4')		9/19/2023		X		Grab	1	X	X	X	X										

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

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Loc: 880
33440
Work Order No: _____

Page 8 of 8

Project Manager	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name:	EOG Resources
Address:	310 W Wall St Ste 415	Address	5509 Champions Dr
City State ZIP	Midland, TX 79701	City State ZIP	Midland TX 79706
Phone	432-813-6623	Email	Todd Wells@eogresources.com

Work Order Comments					
Program: UST/PST	☐ PRR	☐ Brownfields	☐ RC	☐ Iperfund	☐
State of Project:					
Reporting Level II	☐ Level III	☐ ST/UST	☐ RRP	☐ Level IV	☐
Deliverables	EDD ☐	ADAPT ☐	Other _____		

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Comments. Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

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	9-28-23		
	9/28		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-33440-1

SDG Number: Lea County, New Mexico

Login Number: 33440

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: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

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JOB DESCRIPTION

Heatthrob 17 CTB
SDG NUMBER Lea County New Mexico

JOB NUMBER

880-33337-1

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: Heatthrob 17 CTB

Laboratory Job ID: 880-33337-1
SDG: Lea County New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	16
QC Sample Results	18
QC Association Summary	24
Lab Chronicle	28
Certification Summary	32
Method Summary	33
Sample Summary	34
Chain of Custody	35
Receipt Checklists	37

1

2

3

4

5

6

7

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14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB

Job ID: 880-33337-1
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, 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.
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: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Job ID: 880-33337-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-33337-1**

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 9/18/2023 10:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-9 (0-0.5') (880-33337-9). 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: H-11 (0-0.5') (880-33337-11). 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 880-62541 and analytical batch 880-62782 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: The surrogate recovery for the blank associated with preparation batch 880-62810 and analytical batch 880-62773 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-1 (0-0.5') (880-33337-1), H-2 (0-0.5') (880-33337-2), H-3 (0-0.5') (880-33337-3), H-4 (0-0.5') (880-33337-4), H-5 (0-0.5') (880-33337-5), H-6 (0-0.5') (880-33337-6), H-7 (0-0.5') (880-33337-7), H-8 (0-0.5') (880-33337-8), H-9 (0-0.5') (880-33337-9), H-10 (0-0.5') (880-33337-10), (880-33337-A-1-F MS) and (880-33337-A-1-G 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: (CCV 880-62773/20), (CCV 880-62773/31), (CCV 880-62773/5) and (LCS 880-62810/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-11 (0-0.5') (880-33337-11), H-12 (0-0.5') (880-33337-12) and H-13 (0-0.5') (880-33337-13). 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

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: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-33337-1

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 12:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 12:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 12:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/18/23 11:24	09/19/23 12:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 12:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/18/23 11:24	09/19/23 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/18/23 11:24	09/19/23 12:28	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/18/23 11:24	09/19/23 12:28	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			09/19/23 12:28	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			09/19/23 13:19	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	<50.3	U	50.3		mg/Kg		09/19/23 11:55	09/19/23 13:19	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/19/23 11:55	09/19/23 13:19	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/19/23 11:55	09/19/23 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130	09/19/23 11:55	09/19/23 13:19	1
o-Terphenyl	138	S1+	70 - 130	09/19/23 11:55	09/19/23 13:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.4		4.98		mg/Kg			09/19/23 12:14	1

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

Lab Sample ID: 880-33337-2

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 12:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 12:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 12:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/18/23 11:24	09/19/23 12:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 12:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/18/23 11:24	09/19/23 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	09/18/23 11:24	09/19/23 12:49	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/18/23 11:24	09/19/23 12:49	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-33337-2

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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			09/19/23 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/23 14:24	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	<50.0	U	50.0		mg/Kg		09/19/23 11:55	09/19/23 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/19/23 11:55	09/19/23 14:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/19/23 11:55	09/19/23 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				09/19/23 11:55	09/19/23 14:24	1
o-Terphenyl	126		70 - 130				09/19/23 11:55	09/19/23 14:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.8		4.96		mg/Kg			09/19/23 12:20	1

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

Lab Sample ID: 880-33337-3

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 13:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/18/23 11:24	09/19/23 13:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/18/23 11:24	09/19/23 13:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/18/23 11:24	09/19/23 13:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/18/23 11:24	09/19/23 13:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/18/23 11:24	09/19/23 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				09/18/23 11:24	09/19/23 13:09	1
1,4-Difluorobenzene (Surr)	92		70 - 130				09/18/23 11:24	09/19/23 13:09	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			09/19/23 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/23 14:46	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	<49.9	U	49.9		mg/Kg		09/19/23 11:55	09/19/23 14:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/19/23 11:55	09/19/23 14:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-33337-3

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/19/23 11:55	09/19/23 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130				09/19/23 11:55	09/19/23 14:46	1
o-Terphenyl	125		70 - 130				09/19/23 11:55	09/19/23 14:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.5		4.98		mg/Kg			09/20/23 11:41	1

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

Lab Sample ID: 880-33337-4

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 13:30	1
Toluene	0.00236		0.00199		mg/Kg		09/18/23 11:24	09/19/23 13:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/18/23 11:24	09/19/23 13:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/18/23 11:24	09/19/23 13:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/18/23 11:24	09/19/23 13:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/18/23 11:24	09/19/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				09/18/23 11:24	09/19/23 13:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130				09/18/23 11:24	09/19/23 13:30	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			09/19/23 13:30	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			09/19/23 15:08	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	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 15:08	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 15:08	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130				09/19/23 11:55	09/19/23 15:08	1
o-Terphenyl	140	S1+	70 - 130				09/19/23 11:55	09/19/23 15:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.7		5.05		mg/Kg			09/20/23 11:58	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-33337-5

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 13:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 13:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 13:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/18/23 11:24	09/19/23 13:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 13:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/18/23 11:24	09/19/23 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/18/23 11:24	09/19/23 13:50	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/18/23 11:24	09/19/23 13:50	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			09/19/23 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/19/23 15:30	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	<50.3	U	50.3		mg/Kg		09/19/23 11:55	09/19/23 15:30	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/19/23 11:55	09/19/23 15:30	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/19/23 11:55	09/19/23 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	09/19/23 11:55	09/19/23 15:30	1
o-Terphenyl	126		70 - 130	09/19/23 11:55	09/19/23 15:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.2		5.04		mg/Kg			09/20/23 12:04	1

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

Lab Sample ID: 880-33337-6

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00213	U	0.00213		mg/Kg		09/18/23 11:24	09/19/23 14:11	1
Toluene	<0.00213	U	0.00213		mg/Kg		09/18/23 11:24	09/19/23 14:11	1
Ethylbenzene	<0.00213	U	0.00213		mg/Kg		09/18/23 11:24	09/19/23 14:11	1
m-Xylene & p-Xylene	<0.00426	U	0.00426		mg/Kg		09/18/23 11:24	09/19/23 14:11	1
o-Xylene	<0.00213	U	0.00213		mg/Kg		09/18/23 11:24	09/19/23 14:11	1
Xylenes, Total	<0.00426	U	0.00426		mg/Kg		09/18/23 11:24	09/19/23 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	09/18/23 11:24	09/19/23 14:11	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/18/23 11:24	09/19/23 14:11	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-33337-6

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00426	U	0.00426		mg/Kg			09/19/23 14:11	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			09/19/23 15:52	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	<50.1	U	50.1		mg/Kg		09/19/23 11:55	09/19/23 15:52	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		09/19/23 11:55	09/19/23 15:52	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/19/23 11:55	09/19/23 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				09/19/23 11:55	09/19/23 15:52	1
o-Terphenyl	127		70 - 130				09/19/23 11:55	09/19/23 15:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.7		4.96		mg/Kg			09/20/23 12:10	1

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-33337-7

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 14:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/18/23 11:24	09/19/23 14:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/18/23 11:24	09/19/23 14:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/18/23 11:24	09/19/23 14:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/18/23 11:24	09/19/23 14:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/18/23 11:24	09/19/23 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				09/18/23 11:24	09/19/23 14:32	1
1,4-Difluorobenzene (Surr)	81		70 - 130				09/18/23 11:24	09/19/23 14:32	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			09/19/23 14:32	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			09/19/23 16:14	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	<50.4	U	50.4		mg/Kg		09/19/23 11:55	09/19/23 16:14	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		09/19/23 11:55	09/19/23 16:14	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-33337-7

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/19/23 11:55	09/19/23 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130				09/19/23 11:55	09/19/23 16:14	1
o-Terphenyl	137	S1+	70 - 130				09/19/23 11:55	09/19/23 16:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.8		4.97		mg/Kg			09/20/23 12:16	1

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-33337-8

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 15:55	1
Toluene	0.00339		0.00199		mg/Kg		09/18/23 11:24	09/19/23 15:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/18/23 11:24	09/19/23 15:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/18/23 11:24	09/19/23 15:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/18/23 11:24	09/19/23 15:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/18/23 11:24	09/19/23 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130				09/18/23 11:24	09/19/23 15:55	1
1,4-Difluorobenzene (Surr)	82		70 - 130				09/18/23 11:24	09/19/23 15:55	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			09/19/23 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/23 16:36	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	<49.9	U	49.9		mg/Kg		09/19/23 11:55	09/19/23 16:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/19/23 11:55	09/19/23 16:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/19/23 11:55	09/19/23 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				09/19/23 11:55	09/19/23 16:36	1
o-Terphenyl	132	S1+	70 - 130				09/19/23 11:55	09/19/23 16:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.7		5.03		mg/Kg			09/20/23 12:33	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Client Sample ID: H-9 (0-0.5')

Lab Sample ID: 880-33337-9

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 16:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/18/23 11:24	09/19/23 16:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/18/23 11:24	09/19/23 16:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/18/23 11:24	09/19/23 16:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/18/23 11:24	09/19/23 16:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/18/23 11:24	09/19/23 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130	09/18/23 11:24	09/19/23 16:16	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/18/23 11:24	09/19/23 16:16	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			09/19/23 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/19/23 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 16:58	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 16:58	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130	09/19/23 11:55	09/19/23 16:58	1
o-Terphenyl	120		70 - 130	09/19/23 11:55	09/19/23 16:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.0		5.02		mg/Kg			09/20/23 12:39	1

Client Sample ID: H-10 (0-0.5')

Lab Sample ID: 880-33337-10

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 16:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/18/23 11:24	09/19/23 16:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/18/23 11:24	09/19/23 16:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/18/23 11:24	09/19/23 16:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/18/23 11:24	09/19/23 16:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/18/23 11:24	09/19/23 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	09/18/23 11:24	09/19/23 16:36	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/18/23 11:24	09/19/23 16:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Client Sample ID: H-10 (0-0.5')

Lab Sample ID: 880-33337-10

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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			09/19/23 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/19/23 17:20	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		09/19/23 11:55	09/19/23 17:20	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 17:20	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				09/19/23 11:55	09/19/23 17:20	1
o-Terphenyl	122		70 - 130				09/19/23 11:55	09/19/23 17:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.1		5.02		mg/Kg			09/20/23 12:45	1

Client Sample ID: H-11 (0-0.5')

Lab Sample ID: 880-33337-11

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 16:57	1
Toluene	0.00608		0.00200		mg/Kg		09/18/23 11:24	09/19/23 16:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 16:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/18/23 11:24	09/19/23 16:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 16:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/18/23 11:24	09/19/23 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130				09/18/23 11:24	09/19/23 16:57	1
1,4-Difluorobenzene (Surr)	103		70 - 130				09/18/23 11:24	09/19/23 16:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00608		0.00399		mg/Kg			09/19/23 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			09/19/23 18:04	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	<49.5	U	49.5		mg/Kg		09/19/23 11:55	09/19/23 18:04	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		09/19/23 11:55	09/19/23 18:04	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Client Sample ID: H-11 (0-0.5')

Lab Sample ID: 880-33337-11

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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)	<49.5	U	49.5		mg/Kg		09/19/23 11:55	09/19/23 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				09/19/23 11:55	09/19/23 18:04	1
o-Terphenyl	129		70 - 130				09/19/23 11:55	09/19/23 18:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.0		5.00		mg/Kg			09/20/23 12:51	1

Client Sample ID: H-12 (0-0.5')

Lab Sample ID: 880-33337-12

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 17:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/18/23 11:24	09/19/23 17:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/18/23 11:24	09/19/23 17:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/18/23 11:24	09/19/23 17:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/18/23 11:24	09/19/23 17:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/18/23 11:24	09/19/23 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				09/18/23 11:24	09/19/23 17:17	1
1,4-Difluorobenzene (Surr)	88		70 - 130				09/18/23 11:24	09/19/23 17:17	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			09/19/23 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/19/23 18:26	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	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 18:26	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 18:26	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/19/23 11:55	09/19/23 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				09/19/23 11:55	09/19/23 18:26	1
o-Terphenyl	118		70 - 130				09/19/23 11:55	09/19/23 18:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.0		4.99		mg/Kg			09/20/23 12:56	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Client Sample ID: H-13 (0-0.5')

Lab Sample ID: 880-33337-13

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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		09/18/23 11:24	09/19/23 17:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 17:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 17:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/18/23 11:24	09/19/23 17:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 17:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/18/23 11:24	09/19/23 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/18/23 11:24	09/19/23 17:38	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/18/23 11:24	09/19/23 17:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/19/23 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	1500		50.3		mg/Kg			09/19/23 18:48	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	<50.3	U	50.3		mg/Kg		09/19/23 11:55	09/19/23 18:48	1
Diesel Range Organics (Over C10-C28)	1500		50.3		mg/Kg		09/19/23 11:55	09/19/23 18:48	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/19/23 11:55	09/19/23 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130	09/19/23 11:55	09/19/23 18:48	1
o-Terphenyl	116		70 - 130	09/19/23 11:55	09/19/23 18:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.5		5.04		mg/Kg			09/20/23 13:02	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB

Job ID: 880-33337-1
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)				
880-33305-A-6-B MS	Matrix Spike	107	104				
880-33305-A-6-C MSD	Matrix Spike Duplicate	107	106				
880-33337-1	H-1 (0-0.5')	94	85				
880-33337-2	H-2 (0-0.5')	79	83				
880-33337-3	H-3 (0-0.5')	97	92				
880-33337-4	H-4 (0-0.5')	82	103				
880-33337-5	H-5 (0-0.5')	96	89				
880-33337-6	H-6 (0-0.5')	82	82				
880-33337-7	H-7 (0-0.5')	86	81				
880-33337-8	H-8 (0-0.5')	72	82				
880-33337-9	H-9 (0-0.5')	51 S1-	107				
880-33337-10	H-10 (0-0.5')	82	93				
880-33337-11	H-11 (0-0.5')	69 S1-	103				
880-33337-12	H-12 (0-0.5')	90	88				
880-33337-13	H-13 (0-0.5')	93	80				
LCS 880-62541/1-A	Lab Control Sample	116	112				
LCS 880-62721/1-A	Lab Control Sample	107	116				
LCSD 880-62541/2-A	Lab Control Sample Dup	110	90				
LCSD 880-62721/2-A	Lab Control Sample Dup	103	113				
MB 880-62721/5-A	Method Blank	71	96				
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)				
880-33337-1	H-1 (0-0.5')	156 S1+	138 S1+				
880-33337-1 MS	H-1 (0-0.5')	141 S1+	117				
880-33337-1 MSD	H-1 (0-0.5')	137 S1+	113				
880-33337-2	H-2 (0-0.5')	144 S1+	126				
880-33337-3	H-3 (0-0.5')	140 S1+	125				
880-33337-4	H-4 (0-0.5')	157 S1+	140 S1+				
880-33337-5	H-5 (0-0.5')	142 S1+	126				
880-33337-6	H-6 (0-0.5')	144 S1+	127				
880-33337-7	H-7 (0-0.5')	154 S1+	137 S1+				
880-33337-8	H-8 (0-0.5')	149 S1+	132 S1+				
880-33337-9	H-9 (0-0.5')	141 S1+	120				
880-33337-10	H-10 (0-0.5')	142 S1+	122				
880-33337-11	H-11 (0-0.5')	148 S1+	129				
880-33337-12	H-12 (0-0.5')	136 S1+	118				
880-33337-13	H-13 (0-0.5')	137 S1+	116				
LCS 880-62810/2-A	Lab Control Sample	119	138 S1+				
LCSD 880-62810/3-A	Lab Control Sample Dup	107	103				
MB 880-62810/1-A	Method Blank	161 S1+	148 S1+				
Surrogate Legend							

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Surrogate Summary

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Job ID: 880-33337-1
SDG: Lea County New Mexico

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QC Sample Results

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 880-62541/1-A

Matrix: Solid

Analysis Batch: 62782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1062		mg/Kg		106	70 - 130
Toluene	0.100	0.1023		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1028		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2178		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1078		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-62541/2-A

Matrix: Solid

Analysis Batch: 62782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62541

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09618		mg/Kg		96	70 - 130	10	35
Toluene	0.100	0.1020		mg/Kg		102	70 - 130	0	35
Ethylbenzene	0.100	0.09798		mg/Kg		98	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2068		mg/Kg		103	70 - 130	5	35
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-33305-A-6-B MS

Matrix: Solid

Analysis Batch: 62782

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 62541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.08730		mg/Kg		87	70 - 130
Toluene	<0.00200	U F1	0.0998	0.07313		mg/Kg		73	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.07481		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1545		mg/Kg		77	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.07608		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-33305-A-6-C MSD

Matrix: Solid

Analysis Batch: 62782

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.07432		mg/Kg		74	70 - 130	16	35
Toluene	<0.00200	U F1	0.101	0.05604	F1	mg/Kg		55	70 - 130	26	35
Ethylbenzene	<0.00200	U F1	0.101	0.05978	F1	mg/Kg		59	70 - 130	22	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-33305-A-6-C MSD

Matrix: Solid

Analysis Batch: 62782

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1261	F1	mg/Kg		62	70 - 130	20	35
o-Xylene	<0.00200	U F1	0.101	0.06496	F1	mg/Kg		64	70 - 130	16	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	107		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								

Lab Sample ID: MB 880-62721/5-A

Matrix: Solid

Analysis Batch: 62782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 11:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 11:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 11:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/18/23 11:24	09/19/23 11:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/18/23 11:24	09/19/23 11:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/18/23 11:24	09/19/23 11:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130				09/18/23 11:24	09/19/23 11:05	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/18/23 11:24	09/19/23 11:05	1

Lab Sample ID: LCS 880-62721/1-A

Matrix: Solid

Analysis Batch: 62782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1109		mg/Kg		111	70 - 130		
Toluene	0.100	0.1084		mg/Kg		108	70 - 130		
Ethylbenzene	0.100	0.1037		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		110	70 - 130		
o-Xylene	0.100	0.1082		mg/Kg		108	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 880-62721/2-A

Matrix: Solid

Analysis Batch: 62782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62721

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1061		mg/Kg		106	70 - 130	4	35
Toluene	0.100	0.09934		mg/Kg		99	70 - 130	9	35
Ethylbenzene	0.100	0.09349		mg/Kg		93	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1973		mg/Kg		99	70 - 130	11	35
o-Xylene	0.100	0.09636		mg/Kg		96	70 - 130	12	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

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

Lab Sample ID: MB 880-62810/1-A

Matrix: Solid

Analysis Batch: 62773

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62810

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		09/19/23 08:00	09/19/23 08:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/19/23 08:00	09/19/23 08:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/19/23 08:00	09/19/23 08:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130				09/19/23 08:00	09/19/23 08:41	1
o-Terphenyl	148	S1+	70 - 130				09/19/23 08:00	09/19/23 08:41	1

Lab Sample ID: LCS 880-62810/2-A

Matrix: Solid

Analysis Batch: 62773

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	927.6		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	966.8		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	119		70 - 130				
o-Terphenyl	138	S1+	70 - 130				

Lab Sample ID: LCSD 880-62810/3-A

Matrix: Solid

Analysis Batch: 62773

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62810

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	967.3		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	942.5		mg/Kg		94	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	103		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-33337-1 MS

Matrix: Solid

Analysis Batch: 62773

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

Prep Type: Total/NA

Prep Batch: 62810

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	991.9		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	1234		mg/Kg		118	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	141	S1+	70 - 130								
o-Terphenyl	117		70 - 130								

Lab Sample ID: 880-33337-1 MSD

Matrix: Solid

Analysis Batch: 62773

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

Prep Type: Total/NA

Prep Batch: 62810

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	939.5		mg/Kg		90	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	1198		mg/Kg		115	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	137	S1+	70 - 130								
o-Terphenyl	113		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-62731/1-A

Matrix: Solid

Analysis Batch: 62825

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			09/19/23 08:52	1

Lab Sample ID: LCS 880-62731/2-A

Matrix: Solid

Analysis Batch: 62825

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-62731/3-A

Matrix: Solid

Analysis Batch: 62825

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	1	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-33335-A-1-C MS

Matrix: Solid

Analysis Batch: 62825

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	90.8		252	317.8		mg/Kg		90	90 - 110

Lab Sample ID: 880-33335-A-1-D MSD

Matrix: Solid

Analysis Batch: 62825

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	90.8		252	317.4		mg/Kg		90	90 - 110	0	20

Lab Sample ID: MB 880-62728/1-A

Matrix: Solid

Analysis Batch: 62898

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			09/20/23 10:54	1

Lab Sample ID: LCS 880-62728/2-A

Matrix: Solid

Analysis Batch: 62898

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.3		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-62728/3-A

Matrix: Solid

Analysis Batch: 62898

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	245.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-33337-3 MS

Matrix: Solid

Analysis Batch: 62898

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	67.5		249	302.8		mg/Kg		94	90 - 110

Lab Sample ID: 880-33337-3 MSD

Matrix: Solid

Analysis Batch: 62898

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67.5		249	301.5		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-33337-13 MS

Matrix: Solid

Analysis Batch: 62898

Client Sample ID: H-13 (0-0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	57.5		252	291.6		mg/Kg		93	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-33337-13 MSD					Client Sample ID: H-13 (0-0.5')							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 62898												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	57.5		252	291.7		mg/Kg		93	90 - 110	0	20	

QC Association Summary

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

GC VOA

Prep Batch: 62541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-62541/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62541/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33305-A-6-B MS	Matrix Spike	Total/NA	Solid	5035	
880-33305-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 62721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-33337-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-33337-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-33337-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-33337-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-33337-6	H-6 (0-0.5')	Total/NA	Solid	5035	
880-33337-7	H-7 (0-0.5')	Total/NA	Solid	5035	
880-33337-8	H-8 (0-0.5')	Total/NA	Solid	5035	
880-33337-9	H-9 (0-0.5')	Total/NA	Solid	5035	
880-33337-10	H-10 (0-0.5')	Total/NA	Solid	5035	
880-33337-11	H-11 (0-0.5')	Total/NA	Solid	5035	
880-33337-12	H-12 (0-0.5')	Total/NA	Solid	5035	
880-33337-13	H-13 (0-0.5')	Total/NA	Solid	5035	
MB 880-62721/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62721/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62721/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 62782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-1	H-1 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-2	H-2 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-3	H-3 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-4	H-4 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-5	H-5 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-6	H-6 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-7	H-7 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-8	H-8 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-9	H-9 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-10	H-10 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-11	H-11 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-12	H-12 (0-0.5')	Total/NA	Solid	8021B	62721
880-33337-13	H-13 (0-0.5')	Total/NA	Solid	8021B	62721
MB 880-62721/5-A	Method Blank	Total/NA	Solid	8021B	62721
LCS 880-62541/1-A	Lab Control Sample	Total/NA	Solid	8021B	62541
LCS 880-62721/1-A	Lab Control Sample	Total/NA	Solid	8021B	62721
LCSD 880-62541/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62541
LCSD 880-62721/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62721
880-33305-A-6-B MS	Matrix Spike	Total/NA	Solid	8021B	62541
880-33305-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62541

Analysis Batch: 62831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

GC VOA (Continued)

Analysis Batch: 62831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-8	H-8 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-9	H-9 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-10	H-10 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-11	H-11 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-12	H-12 (0-0.5')	Total/NA	Solid	Total BTEX	
880-33337-13	H-13 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 62773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-8	H-8 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-9	H-9 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-10	H-10 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-11	H-11 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-12	H-12 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-13	H-13 (0-0.5')	Total/NA	Solid	8015B NM	62810
MB 880-62810/1-A	Method Blank	Total/NA	Solid	8015B NM	62810
LCS 880-62810/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62810
LCSD 880-62810/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62810
880-33337-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	62810
880-33337-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	62810

Prep Batch: 62810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-8	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-9	H-9 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-10	H-10 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-11	H-11 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-12	H-12 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-13	H-13 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-62810/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

GC Semi VOA (Continued)

Prep Batch: 62810 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-62810/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62810/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33337-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-33337-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 62888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-8	H-8 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-9	H-9 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-10	H-10 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-11	H-11 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-12	H-12 (0-0.5')	Total/NA	Solid	8015 NM	
880-33337-13	H-13 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 62728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-8	H-8 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-9	H-9 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-10	H-10 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-11	H-11 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-12	H-12 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-13	H-13 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-62728/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62728/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62728/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33337-3 MS	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-3 MSD	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-13 MS	H-13 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-13 MSD	H-13 (0-0.5')	Soluble	Solid	DI Leach	

Leach Batch: 62731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-33337-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-62731/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62731/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62731/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

HPLC/IC (Continued)

Leach Batch: 62731 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33335-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-33335-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 62825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-1	H-1 (0-0.5')	Soluble	Solid	300.0	62731
880-33337-2	H-2 (0-0.5')	Soluble	Solid	300.0	62731
MB 880-62731/1-A	Method Blank	Soluble	Solid	300.0	62731
LCS 880-62731/2-A	Lab Control Sample	Soluble	Solid	300.0	62731
LCSD 880-62731/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62731
880-33335-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	62731
880-33335-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	62731

Analysis Batch: 62898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33337-3	H-3 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-4	H-4 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-5	H-5 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-6	H-6 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-7	H-7 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-8	H-8 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-9	H-9 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-10	H-10 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-11	H-11 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-12	H-12 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-13	H-13 (0-0.5')	Soluble	Solid	300.0	62728
MB 880-62728/1-A	Method Blank	Soluble	Solid	300.0	62728
LCS 880-62728/2-A	Lab Control Sample	Soluble	Solid	300.0	62728
LCSD 880-62728/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62728
880-33337-3 MS	H-3 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-3 MSD	H-3 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-13 MS	H-13 (0-0.5')	Soluble	Solid	300.0	62728
880-33337-13 MSD	H-13 (0-0.5')	Soluble	Solid	300.0	62728

Lab Chronicle

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-33337-1

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 12:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 13:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 13:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62731	09/18/23 11:54	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62825	09/19/23 12:14	CH	EET MID

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

Lab Sample ID: 880-33337-2

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 12:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 14:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 14:24	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62731	09/18/23 11:54	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62825	09/19/23 12:20	CH	EET MID

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

Lab Sample ID: 880-33337-3

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 14:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 11:41	CH	EET MID

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

Lab Sample ID: 880-33337-4

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 13:30	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-33337-4

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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			62888	09/19/23 15:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 15:08	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 11:58	CH	EET MID

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

Lab Sample ID: 880-33337-5

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 13:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 15:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 15:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 12:04	CH	EET MID

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

Lab Sample ID: 880-33337-6

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.697 g	5 mL	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 14:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 15:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 15:52	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 12:10	CH	EET MID

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-33337-7

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 14:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 16:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 16:14	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heaththrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-33337-7

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 12:16	CH	EET MID

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-33337-8

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 15:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 15:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 16:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 16:36	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 12:33	CH	EET MID

Client Sample ID: H-9 (0-0.5')

Lab Sample ID: 880-33337-9

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 16:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 16:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 16:58	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 12:39	CH	EET MID

Client Sample ID: H-10 (0-0.5')

Lab Sample ID: 880-33337-10

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 16:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 16:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 17:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 17:20	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 12:45	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Client Sample ID: H-11 (0-0.5')

Lab Sample ID: 880-33337-11

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 16:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 16:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 18:04	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 12:51	CH	EET MID

Client Sample ID: H-12 (0-0.5')

Lab Sample ID: 880-33337-12

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 17:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 17:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 18:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 18:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 12:56	CH	EET MID

Client Sample ID: H-13 (0-0.5')

Lab Sample ID: 880-33337-13

Date Collected: 09/15/23 00:00

Matrix: Solid

Date Received: 09/18/23 10:56

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	62721	09/18/23 11:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62782	09/19/23 17:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62831	09/19/23 17:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			62888	09/19/23 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62810	09/19/23 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62773	09/19/23 18:48	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62728	09/18/23 11:50	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62898	09/20/23 13:02	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: Heatthrob 17 CTB

Job ID: 880-33337-1
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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Heatthrob 17 CTB

Job ID: 880-33337-1
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: Heatthrob 17 CTB

Job ID: 880-33337-1
SDG: Lea County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33337-1	H-1 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-2	H-2 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-3	H-3 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-4	H-4 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-5	H-5 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-6	H-6 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-7	H-7 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-8	H-8 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-9	H-9 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-10	H-10 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-11	H-11 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-12	H-12 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56
880-33337-13	H-13 (0-0.5')	Solid	09/15/23 00:00	09/18/23 10:56

Chain of Custody



880-33337 Chain of Custody

Page 1 of 4

Project Manager	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 415	Address	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland TX 79706
Phone	432-813-6823	Email	Todd Wells@eogresources.com

Work Order Comments	
Program UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ Iperfund
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables EDD	☐ ADAPT ☐ Other

Project Name		Hearthrob 17 CTB		Turn Around			Pres. Code	ANALYSIS REQUEST										Preservative Codes	
Project Number	1179	☐ Routine	☒ Rush	Due Date	72 Hrs												None NO	DI Water H ₂ O	
Project Location	Lea County, New Mexico			Due Date													Cool Cool	MeOH Me	
Sampler's Name	MM			Due Date													HCL HC	HNO ₃ HN	
PO #				Due Date													H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT				Temp Blank	☒ Yes	☐ No	Well Ice	☒ Yes	☐ No									H ₃ PO ₄ HP	
Received Inact.				☒ Yes	☐ No	Thermometer ID									NaHSO ₄ NABIS				
Cooler Custody Seals.				☒ Yes	☐ No	Correction Factor									Na ₂ S ₂ O ₃ NaSO ₃				
Sample Custody Seals.				☒ Yes	☐ No	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	
H-1 (0-0.5')		9/15/2023		X		Grab	1	X	X	X									
H-2 (0-0.5')		9/15/2023		X		Grab	1	X	X	X									
H-3 (0-0.5')		9/15/2023		X		Grab	1	X	X	X									
H-4 (0-0.5')		9/15/2023		X		Grab	1	X	X	X									
H-5 (0-0.5')		9/15/2023		X		Grab	1	X	X	X									
H-6 (0-0.5')		9/15/2023		X		Grab	1	X	X	X									
H-7 (0-0.5')		9/15/2023		X		Grab	1	X	X	X									
H-8 (0-0.5')		9/15/2023		X		Grab	1	X	X	X									
H-9 (0-0.5')		9/15/2023		X		Grab	1	X	X	X									
H-10 (0-0.5')		9/15/2023		X		Grab	1	X	X	X									

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

Relinquished by (Signature)		Date/Time	Received by (Signature)		Date/Time
		9-18-23			
		1230			

Choi's Customs

Work Order No: _____

Page 2 of 2

Project Manager	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 415	Address	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland TX 79706
Phone	432-813-6823	Email	Todd Wells@eogresources.com

Work Order Comments				
Program UST/ST	☐ PRP	☐ Brownfields	☐ RC	☐ perfund
State of Project:				
Reporting Level II	☐ Level III	☐ ST/UST	☐ RRP	☐ Level IV
Deliverables	EDD ☐	Adapt ☐	Other	

[illegible]

Comments Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-33337-1

SDG Number: Lea County New Mexico

Login Number: 33337

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

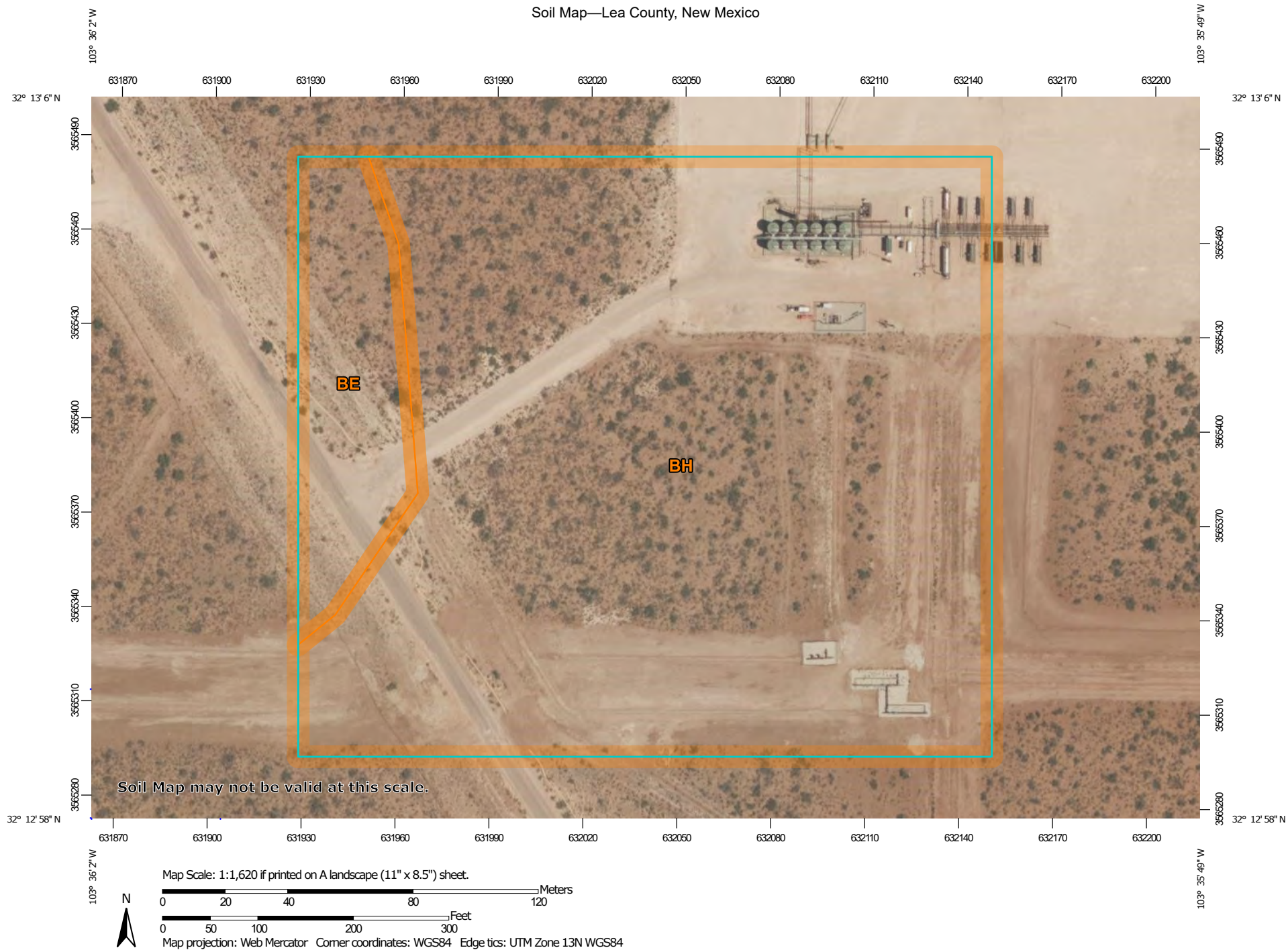
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature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

APPENDIX F

CARMONA RESOURCES



Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

11/15/2023
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
BE	Berino-Cacique loamy fine sands association	1.1	10.8%
BH	Berino-Cacique association, hummocky	9.4	89.2%
Totals for Area of Interest		10.5	100.0%

Map Unit Description: Berino-Cacique association, hummocky---Lea County, New Mexico

Lea County, New Mexico

BH—Berino-Cacique association, hummocky

Map Unit Setting

National map unit symbol: dmpg

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 13 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent

Cacique and similar soils: 40 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 10 inches: fine sand

Btk - 10 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 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: Moderate (about 8.5 inches)

Map Unit Description: Berino-Cacique association, hummocky---Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Cacique**Setting**

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 7 inches: fine sand

Bt - 7 to 28 inches: sandy clay loam

Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: 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: 40 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: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Minor Components**Kermit**

Percent of map unit: 4 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 3 percent

Map Unit Description: Berino-Cacique association, hummocky---Lea County, New Mexico

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Palomas

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Dune land

Percent of map unit: 1 percent

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: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Lea County, New Mexico

BE—Berino-Cacique loamy fine sands association

Map Unit Setting

National map unit symbol: dmpd

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 13 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent

Cacique and similar soils: 40 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 6 inches: loamy fine sand

Btk - 6 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 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: Moderate (about 8.7 inches)

Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Cacique**Setting**

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: loamy fine sand

Bt - 12 to 28 inches: sandy clay loam

Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: 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: 5 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: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Minor Components**Maljamar**

Percent of map unit: 6 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Palomas

Percent of map unit: 4 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

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>.



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 286749

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 286749
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation Plan Approved with conditions. Ensure horizontal delineation in area of H-13 is achieved during remediation activities. Note: Variance request to collect five-point composite samples at a sampling frequency of every 500 square feet from the sidewalls and floor of the excavation is denied. The variance is approved for 5-point composite confirmation samples to be collected every 400 ft2 as this is the largest variance OCD approves. Submit closure report to OCD by May 22, 2024.	2/22/2024