



SITE INFORMATION

Deferment Report
Hallertau 5 Federal 7H-11H Riser
Incident ID: nAPP2303937491
Lea County, New Mexico
Unit M Sec 5 T26S R32E
32.066706°, -103.701746°

Point of Release: Hole in 10" Carbon Steel SWD Trunk Line Riser

Release Date: 02/07/2023

Volume Released: 17 Barrels of Produced Water

Volume Recovered: 0 Barrels of Produced Water

CARMONA RESOURCES

Prepared for:
Cimarex Energy Co. of Colorado
600 N. Marienfeld Street
Suite 600
Midland, Texas 79701



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



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April 11, 2023

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

Re: Deferment Report
Hallertau 5 Federal 7H-11H Riser
Cimarex Energy Co. of Colorado
Site Location: Unit M, S5 T26S, R32E
(Lat 32.066706°, Long -103.701746°)
Lea County, New Mexico

To whom it may concern:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Hallertau 5 Federal 7H-11H Riser. The site is located at 32.066706°, -103.701746° within Unit M, S5, T26S, R32E, 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 leak was discovered on February 7, 2023, caused by a hole in a 10" carbon steel salt water disposal (swd) trunk line riser. It resulted in approximately seventeen (17) barrels of produced water released, and zero (0) barrels of produced water were recovered. The impacted area is located on the right-of-way. Refer to Figure 3 for a spill overview. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, one known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 0.49 miles Northeast of the site in S01, T26S, R31E and was drilled in 1987. The well has a reported depth to groundwater of 289.90' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

On February 7th, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the horizontal extent, six (6) horizontal sample points were advanced to depths ranging from the surface to 0.5' below ground surface (bgs) outside the area of concern. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody



protocol to Cardinal Laboratories in Hobbs, New Mexico. 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 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

5.0 Remediation Activities

Before beginning remediation of the release area, a remediation variance was requested via email on March 9, 2023, to the NMOCD division office. Due to safety concerns and the hard lithology of the location, the area superintendent requests the use of the track-hoe and hammer-hoe attachment not be used within 10' of the active riser and all buried lines. Instead, the entire area was remediated with the use of a hydrovac until progress was stopped after 0.5' after 3 days of work, due to the hard lithology. The deferral request was approved on March 9, 2023. See Appendix C.

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on March 16, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of thirty-three (33) confirmation floor samples (CS-1 through CS-33) and twenty-nine (29) sidewall samples (SW-1 through SW-29) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Deferment Area

A 10' buffer zone of the riser and buried flowlines will be deferred until the infrastructure is removed or replaced, whichever comes first. Refer to Table 2 and Figure 4 (Facility Equipment). See Appendix C.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 700 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the area, safety, and active facility equipment, Cimarex requests to defer the chloride impact from the area near the facility equipment (buried flowlines and above ground riser) until the infrastructure is removed or replaced. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

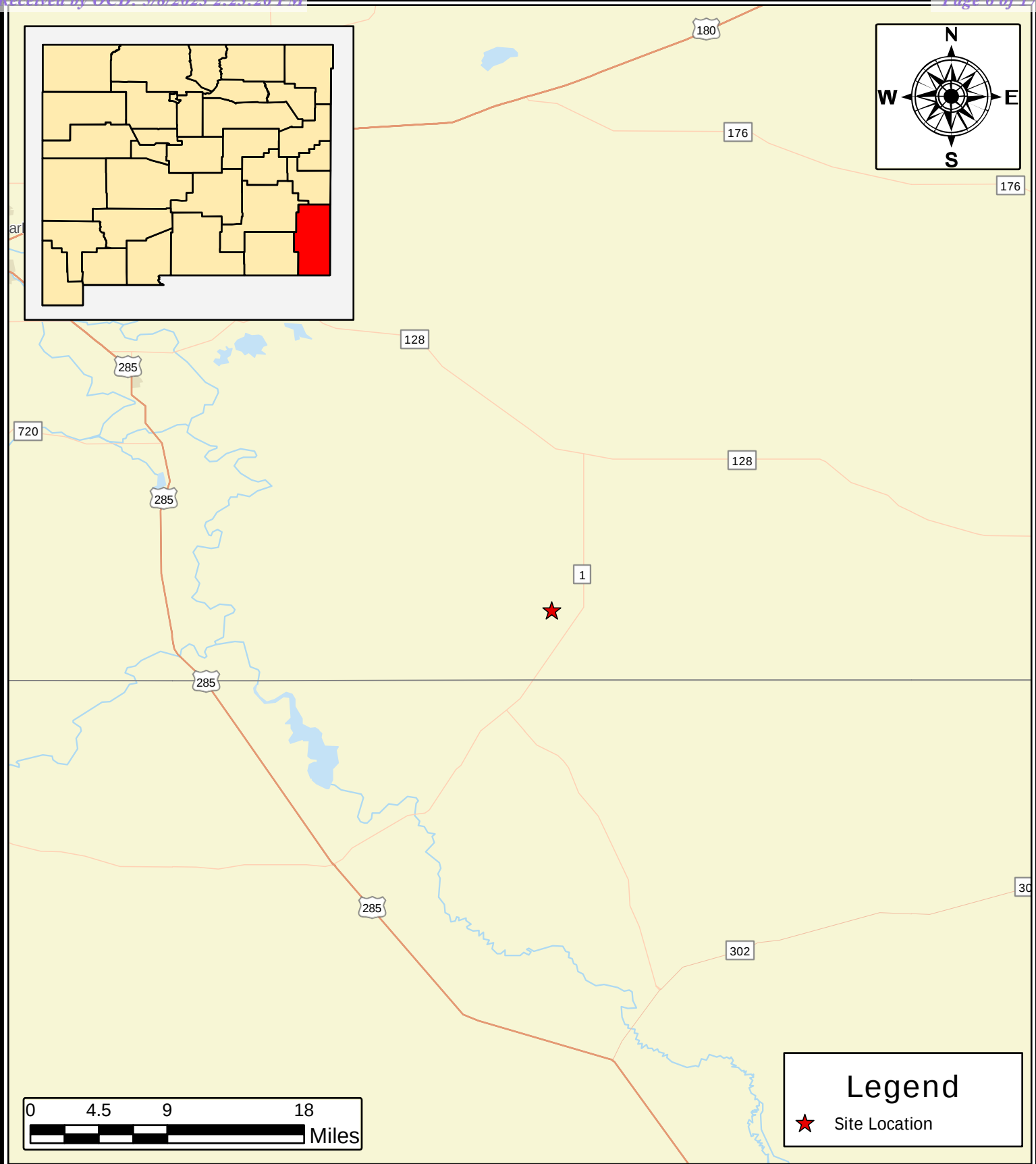
Ashton Thielke
Sr. Project Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES





OVERVIEW MAP
CIMAREX ENERGY CO. OF COLORADO
HALLERTAU 5 FEDERAL 7H-11H RISER
LEA COUNTY, NEW MEXICO
32.066706, -103.701746

SCALE: As Shown

Date: 4/6/2023



Carmona Resources
310 West Wall Street, Suite 500
Midland, Texas 79701

NOTES:

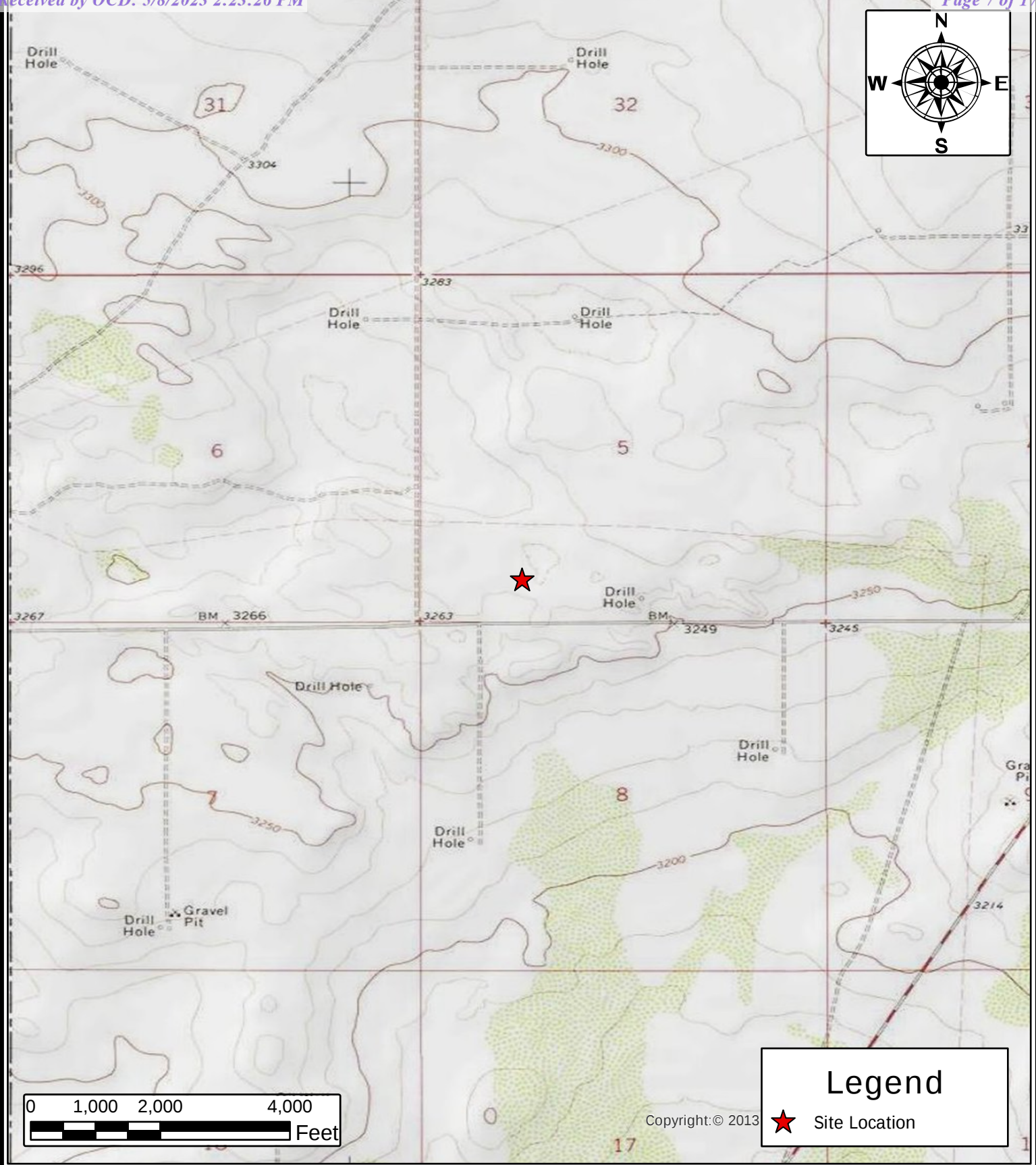
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1

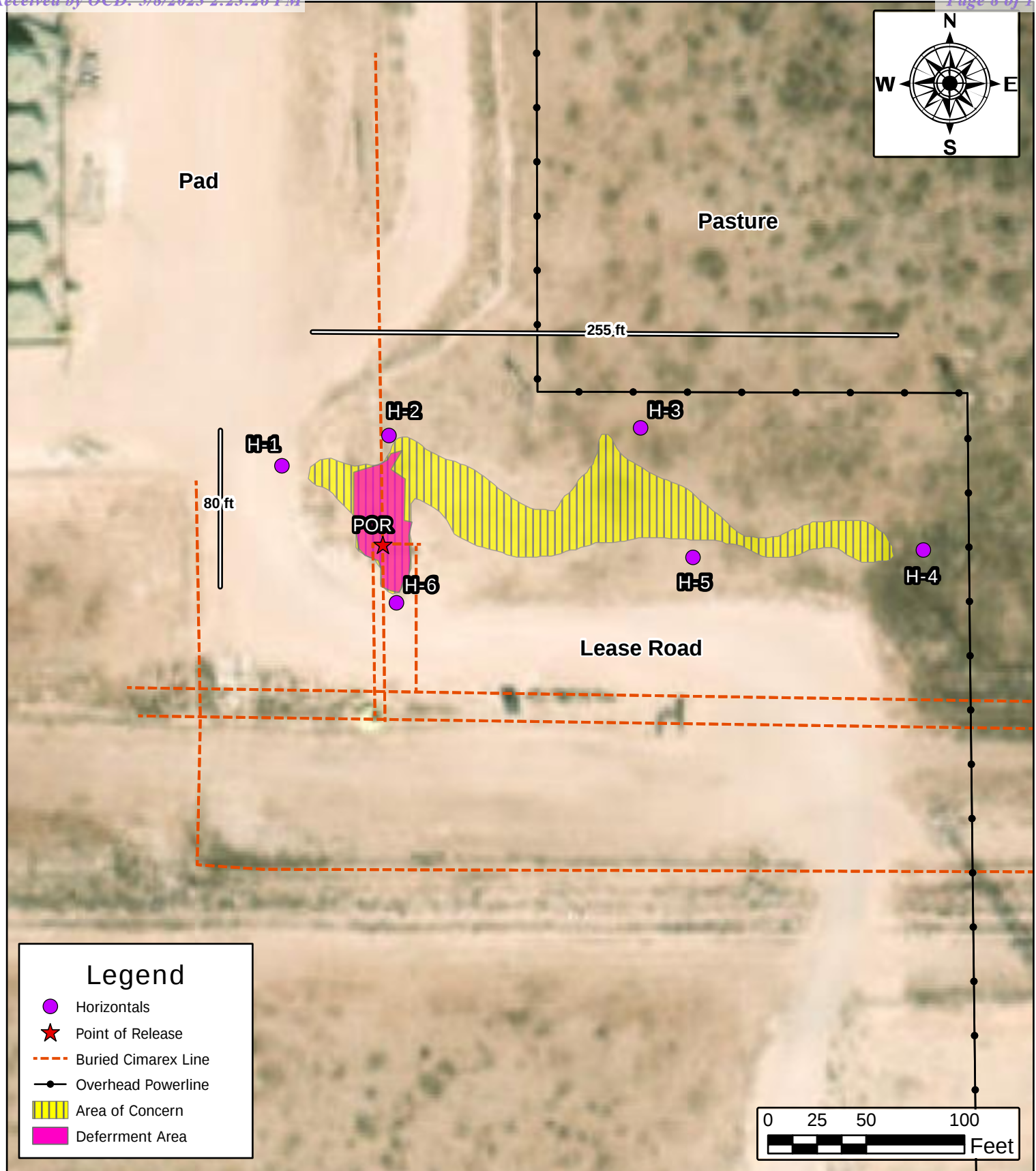


TOPOGRAPHIC MAP CIMAREX ENERGY CO. OF COLORADO HALLERTAU 5 FEDERAL 7H-11H RISER LEA COUNTY, NEW MEXICO 32.066706, -103.701746	
SCALE: As Shown	Date: 4/6/2023

 Carmona Resources 310 West Wall Street, Suite 500 Midland, Texas 79701
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NOTES: 1. Base Image: ESRI Maps & Data 2023 2. Map Projection: WGS84

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1



SAMPLE LOCATION MAP
CIMAREX ENERGY CO. OF COLORADO
HALLERTAU 5 FEDERAL 7H-11H RISER
LEA COUNTY, NEW MEXICO
32.066706, -103.701746

SCALE: As Shown

Date: 4/6/2023



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NOTES:

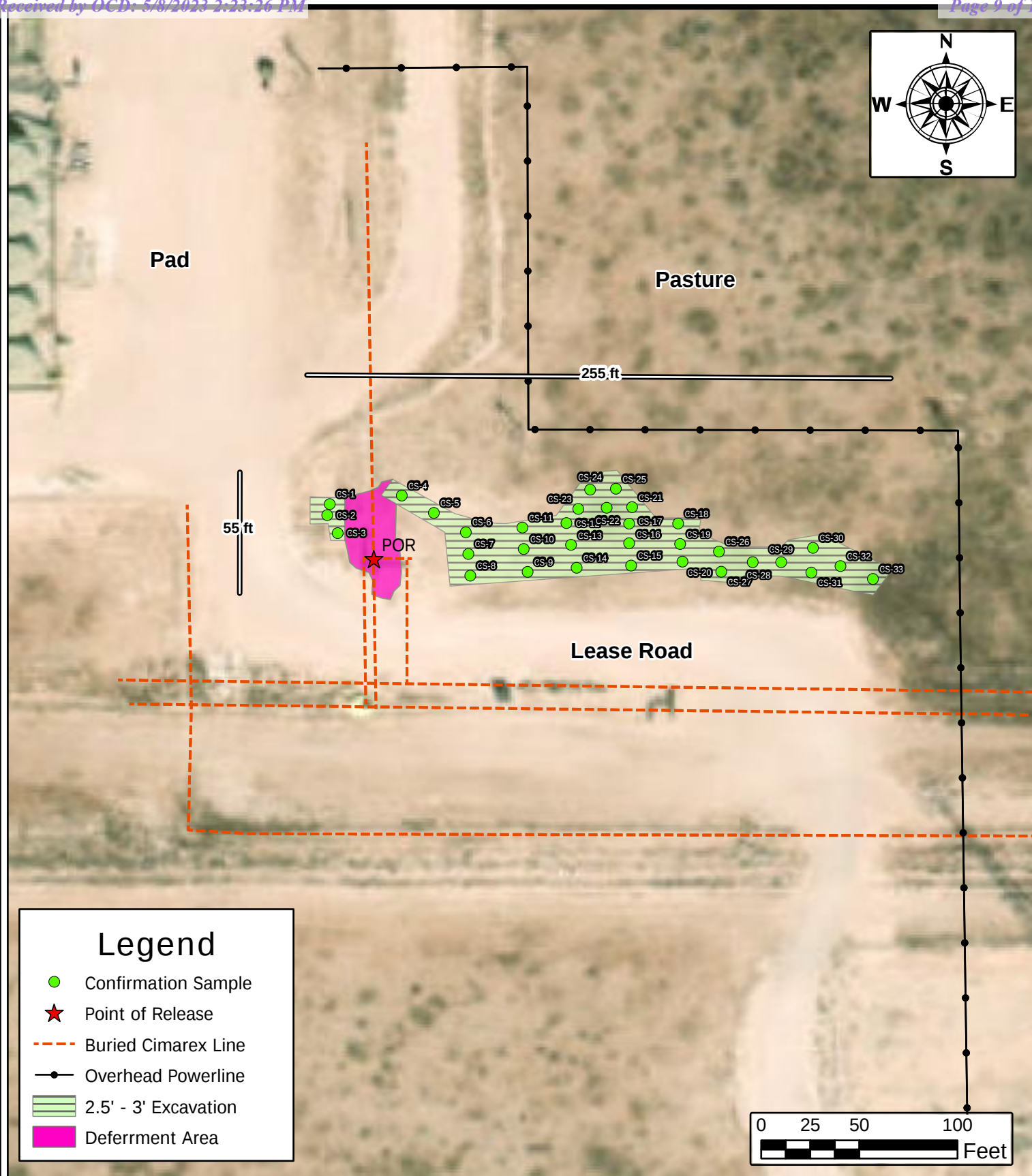
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1



EXCAVATION DEPTH MAP
CIMAREX ENERGY CO. OF COLORADO
 HALLERTAU 5 FEDERAL 7H-11H RISER
 LEA COUNTY, NEW MEXICO
 32.066706, -103.701746

SCALE: As Shown

Date: 4/6/2023



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NOTES:

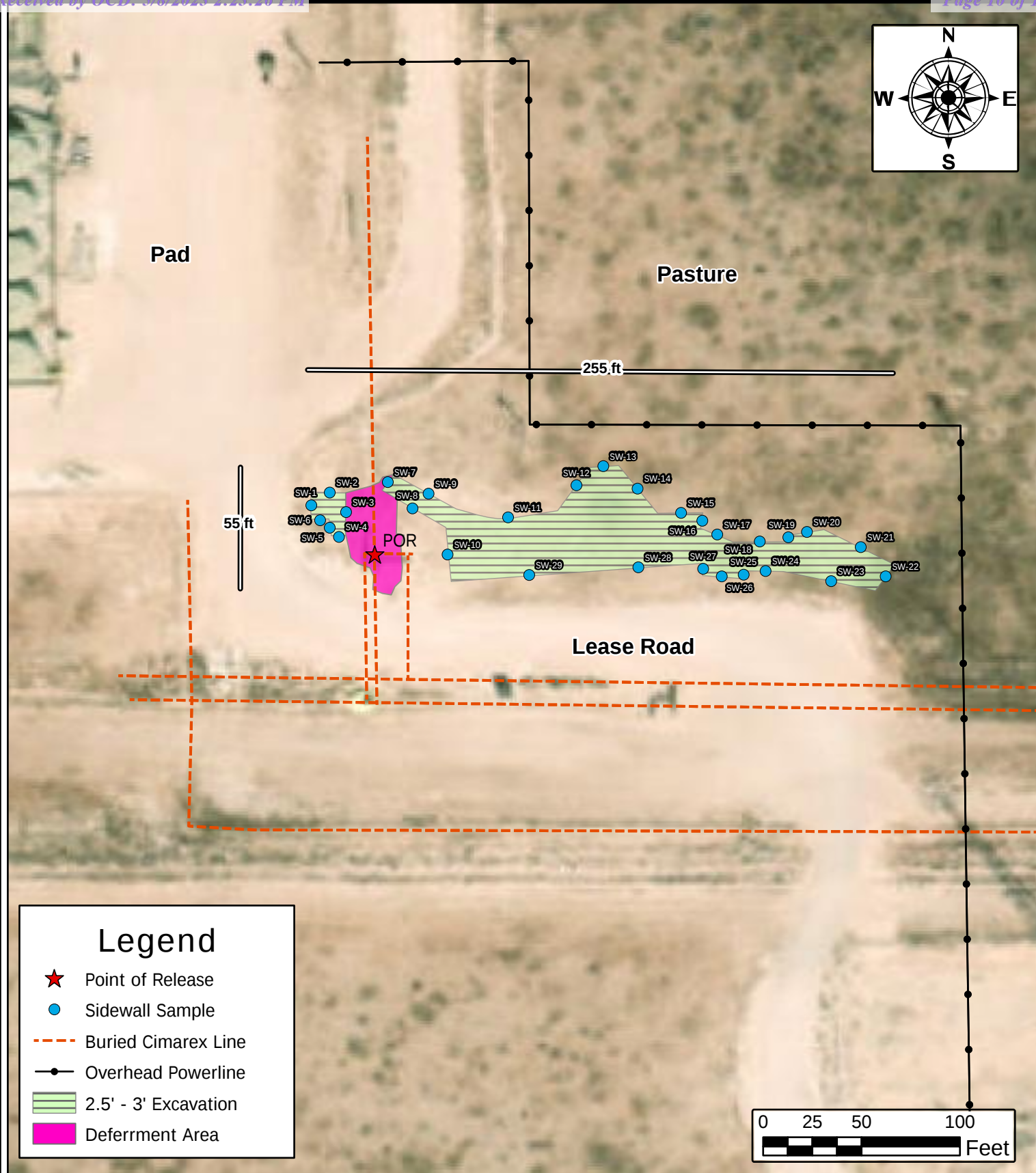
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 4A

SHEET NUMBER:

1 of 2



EXCAVATION DEPTH MAP
CIMAREX ENERGY CO. OF COLORADO
 HALLERTAU 5 FEDERAL 7H-11H RISER
 LEA COUNTY, NEW MEXICO
 32.066706, -103.701746

SCALE: As Shown

Date: 4/6/2023



Carmona Resources
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 Midland, Texas 79701

NOTES:

1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 4B

SHEET NUMBER:

2 of 2

APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex
Hallertau 5 Federal 7H-11H Riser
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	2/7/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-2	2/7/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-3	2/7/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-4	2/7/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-5	2/7/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-6	2/7/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft-feet

(H) Horizontal Sample

Table 2
Cimarex
Hallertau 5 Federal 7H-11H Riser
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	20.9
CS-2	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	75.1
CS-3	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	279
CS-4	3/20/2023	2.5-3	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	530
CS-5	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	317
CS-6	3/20/2023	2.5-3	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	75.4
CS-7	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	91.8
CS-8	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	13.9
CS-9	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	19.4
CS-10	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	73.6
CS-11	3/20/2023	2.5-3	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	88.9
CS-12	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.2
CS-13	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	436
CS-14	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	117
CS-15	3/20/2023	2.5-3	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	171
CS-16	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	138
CS-17	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	30.6
CS-18	3/20/2023	2.5-3	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	34.9
CS-19	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	85.1
CS-20	3/20/2023	2.5-3	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	42.3
CS-21	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	30.6
CS-22	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	40.5
CS-23	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6.16
CS-24	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	266
CS-25	3/20/2023	2.5-3	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	43.4
CS-26	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	15.2
CS-27	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	236
CS-28	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	14.5
CS-29	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.08
CS-30	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	11.7
CS-31	3/20/2023	2.5-3	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	12.1
CS-32	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.98
CS-33	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	17.1
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

Table 2
Cimarex
Hallertau 5 Federal 7H-11H Riser
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						
SW-1	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	31.7
SW-2	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	92.1
SW-3	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	222
SW-4	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	587
SW-5	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	337
SW-6	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	151
SW-7	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	314
SW-8	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	296
SW-9	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	223
SW-10	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	293
SW-11	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	5.41
SW-12	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00201	0.00476	<0.00201	<0.00402	0.00476	59.1
SW-13	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	117
SW-14	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	43.5
SW-15	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	26.3
SW-16	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	9.46
SW-17	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	146
SW-18	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.4
SW-19	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	114
SW-20	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	128
SW-21	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	5.54
SW-22	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	23.3
SW-23	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	6.22
SW-24	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	80.7
SW-25	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	183
SW-26	3/20/2023	2.5-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	73.6
SW-27	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	242
SW-28	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	75.2
SW-29	3/20/2023	2.5-3	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	153
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft-feet

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy Co.

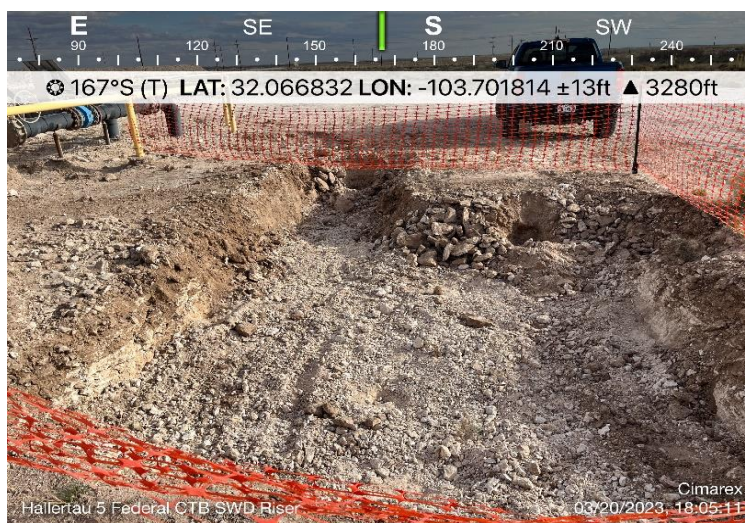
Photograph No. 1

Facility: Hallertau 5 Federal 7H-11H Riser

County: Lea County, New Mexico

Description:

View South, area of CS-1 through CS-3.



Photograph No. 2

Facility: Hallertau 5 Federal 7H-11H Riser

County: Lea County, New Mexico

Description:

View Southwest, area of CS-1 through CS-3.



Photograph No. 3

Facility: Hallertau 5 Federal 7H-11H Riser

County: Lea County, New Mexico

Description:

View Southeast, area of CS-4 through CS-9.



PHOTOGRAPHIC LOG

Cimarex Energy Co.

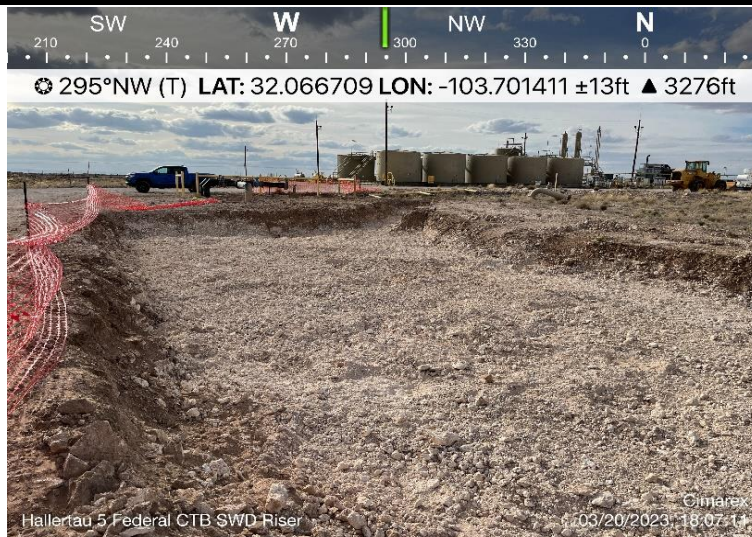
Photograph No. 4

Facility: Hallertau 5 Federal 7H-11H Riser

County: Lea County, New Mexico

Description:

View West, area of CS-4 through CS-29.



Photograph No. 5

Facility: Hallertau 5 Federal 7H-11H Riser

County: Lea County, New Mexico

Description:

View East, area of CS-6 through CS-33.



Photograph No. 6

Facility: Hallertau 5 Federal 7H-11H Riser

County: Lea County, New Mexico

Description:

View East, area of CS-12 through CS-33.



PHOTOGRAPHIC LOG

Cimarex Energy Co.

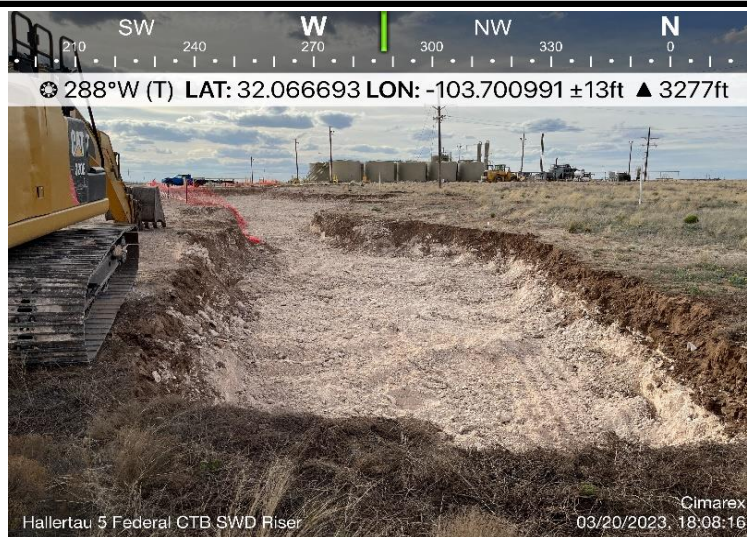
Photograph No. 7

Facility: Hallertau 5 Federal 7H-11H Riser

County: Lea County, New Mexico

Description:

View West, area of CS-12 through CS-33.



Photograph No. 8

Facility: Hallertau 5 Federal 7H-11H Riser

County: Lea County, New Mexico

Description:

View Northeast, area of CS-29 through CS-33.



Photograph No. 9

Facility: Hallertau 5 Federal 7H-11H Riser

County: Lea County, New Mexico

Description:

View East, area of CS-30 through CS-33.



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	nAPP2303937491
District RP	
Facility ID	fAPP2126956613
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co. of Colorado	OGRID: 162683
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2303937491
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.066706 _____ Longitude -103.701746 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Hallertau 5 Federal 7H-11H Riser	Site Type: ROW
Date Release Discovered: 2/7/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	5	26S	32E	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)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 17	Volume Recovered (bbls) 0
	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)

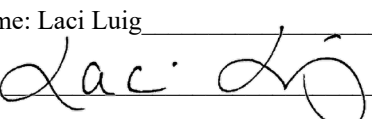
Cause of Release: Corrosion

The Lease Operator arrived on location and found a hole in the 10" carbon steel SWD trunk line riser. The water transfer pumps were immediately shut down and the leak was isolated. According to spill calculations, 17 barrels water was released onto the ROW, 0 barrels were recovered. Hydro vac's were called to start removing impacted soils in the area. Any additional remediation be scheduled in the coming weeks.

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Laci Luig To: OCD Enviro, BLM By: Email	

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>Laci Luig</u>	Title: <u>ESH Specialist</u>
Signature: 	Date: <u>2/8/2023</u>
email: <u>laci.luig@coterra.com</u>	Telephone: <u>(432) 208-3035</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>05/08/2023</u>

< SVC-Pro

Saturated Soil Calculation

Hallertau 5 Fed 7H-11H &16H

L(Ft)	W(Ft)	D(In)	Oil %
240	15	4	0



Soil Definitions



0.08	0.14	0.16	0.25	0.15
------	------	------	------	------

H2O Spill Total: 17.10 Bbls

Oil Spill Total: 0.00 Bbls

Total Spilled: 17.10 Bbls

Total Spilled: 718.08 Gals

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: *Dac. Lj* Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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: *lac. Lj* Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: *Nelson Velez* Date: 07/28/2023

Ashton Thielke

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Thursday, March 9, 2023 5:25 PM
To: Laci Luig; Bratcher, Michael, EMNRD
Cc: Ashton Thielke; Mike Carmona
Subject: RE: [EXTERNAL] nAPP2303937491 - Hallertau 5 SWD ROW Deferral Request

WARNING: This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Hello Laci

After careful review, OCD will approve a variance for a deferral request off pad. Please make sure the information provided below is copied in your Deferral Request Report and this chain of emails are copied in the final report. Please let me know if you have any questions.

Thanks,
Jennifer Nobui

From: Laci Luig <Laci.Luig@coterra.com>
Sent: Thursday, March 9, 2023 2:06 PM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Ashton Thielke <Ashton.Thielke@coterra.com>; Mike Carmona <mcarmona@carmonaresources.com>
Subject: [EXTERNAL] nAPP2303937491 - Hallertau 5 SWD ROW Deferral Request

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

Ms. Nobui,

Regarding Incident nAPP2303937491, Cimarex Energy is requesting a variance to defer an area of impact within 10 ft. of SWD infrastructure lines.

The release occurred 2/7/2023 due to a hole in the 10" carbon steel SWD trunk line riser and released 17 barrels produced water onto the ROW and ran along-side the lease road. Hydrovac's arrived the following morning and started removing the top 6" of impact within 20' of the riser. Due to the rocky lithology of the area, hydrovac's were called off after 3 days of attempting to remove impact. During this time, the spill area was mapped out and soil samples were collected to horizontally define the release extents.

On 3/1/2023, Cimarex had a hydrovac return to site to install windows to attempt to locate a possible unmarked lined (light blue on attached map. During that time, the hydrovac was only able to remove 6-8" of material below surface before hitting refusal.

On 3/8/2023, Cimarex attempted to install 3 test trenches in the pasture to determine vertical delineation. Carmona Resources was on location to assist and titrate samples to confirm delineation. The first test trench (T-1) was attempted with a backhoe, but hit refusal at 3". A trackhoe was immediately brought in to excavate the test trenches, resuming with T-1. After 10 minutes of banging on the ground with the trackhoes buckets' teeth, no progress was made past 8 inches. The trackhoe then moved to T-4 where it attempted to vertically delineate the spill. Even with the heavier equipment, it still took around 10 minutes to dig down to 2.5 ft. below surface, before progress was completely stopped. Luckily, field screening data showed chloride delineation @ 2.5' (189 mg/kg). (Locations marked on attached map)

On 3/9/2023, the area Superintendent was informed of the situation of needing to bring in a hammer-hoe to break up the hard caliche layer encountered. The Superintendent approves of the use of the hammer hoe and trackhoe but staying at least 10' away from all buried lines and the riser due to safety concerns of vibrations from the heavy impact in the area from equipment and flying debris.

Cimarex is requesting a variance to defer the area of impact within 10 ft. of SWD infrastructure lines due to safety concerns and due to damaging equipment, causing additional spills. Cimarex proposes to return to the site and attempt to remove rocks/contamination on surface in the area within 10 ft of the SWD infrastructure lines. Areas outside of the 10 ft. buffer zone will be remediated via trackhoe & hammer-hoe per NMAC 19.15.29 (>600 mg/kg for chlorides...etc for TPH/BTEX) (Evidence of deep groundwater present, attached)

During P&A operations or infrastructure line removal, whichever comes first, Cimarex will return to site and remediate all areas deferred during this remediation to NMAC 19.15.29 <50 ft groundwater closure criteria requirements. (See attached map, area in pink is area of deferment, area in yellow is area we will remediate immediately following approval.) Due to high costs (\$10,000/week) for hammer-hoe rental, we're requesting to schedule a meeting as soon as possible to discuss an approved method of remediation of this site before we schedule excavation crews.

Thank you,



Laci Luig | Environmental, Health & Safety Specialist

T: 432.571.7810 | M: 432.208.3035 | laci.luig@coterra.com | www.coterra.com

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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Ashton Thielke

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, March 16, 2023 10:18 AM
To: Ashton Thielke
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] nAPP2303937491 - Hallertau 5 Federal 7H-11H Riser - Confirmation Sampling Notification

WARNING: This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Ashton,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Thursday, March 16, 2023 7:37 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] nAPP2303937491 - Hallertau 5 Federal 7H-11H Riser - Confirmation Sampling Notification

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

Good morning,

This new email serves as 48 hr. notification for confirmation sampling on the above mentioned site. Sampling is scheduled to begin as early as 8:00 (MST) March 20, 2023, weather and soil conditions permitting.
Incident ID: nAPP2303937491
Coordinates: 32.066706, -103.701746

Thank you,



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | ashton.thielke@coterra.com | www.coterra.com

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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APPENDIX D

CARMONA RESOURCES



Nearest water well

Cimarex Energy Co. of Colorado

Legend

- 0.49 Miles
- 0.50 Mile Radius
- 0.69 Miles
- 1.01 Miles
- 1.37 Miles
- NMSEO Water Well
- Hallertau 5 Fed 1 GWDB >55'
- Hallertau 5 Federal 7H-11H Riser
- USGS Water Well



Medium Karst

Cimarex Energy Co. of Colorado

Legend

- Hallertau 5 Federal 7H-11H Riser
- Low
- Medium

Hallertau 5 Federal 7H-11H Riser



4000 ft



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD		Q Q Q							X	Y	Distance	Depth Well	Depth Water	Water Column
	Sub-Code	basin	County	64	16	4	Sec	Tws	Rng						
C 04209 POD1	CUB	LE	2	3	3	06	26S	32E	620903	3548619		1640	360	155	205
C 04209 POD2	C	LE	2	3	3	06	26S	32E	620818	3548657		1726	340	155	185
C 03829 POD1	CUB	LE	3	3	1	06	26S	32E	620628	3549186		2011	646	350	296
C 03554 POD1	CUB	ED	2	1	4	01	26S	31E	620547	3549148		2077	630	300	330
C 02090	C	ED		4	4	01	26S	31E	620329	3548533*		2213	350	335	15
C 04256 POD1	C	ED	4	4	2	01	26S	31E	620384	3549257		2265	666	340	326
C 03639 POD1	CUB	ED	3	4	2	01	26S	31E	620168	3549279		2478	700	365	335

Average Depth to Water: **285 feet**

Minimum Depth: **155 feet**

Maximum Depth: **365 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 622542.38

Northing (Y): 3548568.79

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.

3/9/23 10:16 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320424103415401

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

USGS 320424103415401 26S.31E.01.421322

Eddy County, New Mexico
Latitude 32°04'24", Longitude 103°41'54" NAD27
Land-surface elevation 3,294 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1983-01-26			D	62610	3002.25	NGVD29	1	Z		
1983-01-26			D	62611	3003.88	NAVD88	1	Z		
1983-01-26			D	72019	290.12		1	Z		
1983-02-14			D	62610	3002.95	NGVD29	1	Z		
1983-02-14			D	62611	3004.58	NAVD88	1	Z		
1983-02-14			D	72019	289.42		1	Z		
1987-10-21			D	62610	3002.47	NGVD29	1	Z		
1987-10-21			D	62611	3004.10	NAVD88	1	Z		
1987-10-21			D	72019	289.90		1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

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

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[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for New Mexico: Water Levels
URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=320424103415401&agency_cd=USGS&format=html)



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2023-03-23 15:34:50 EDT
0.29 0.25 nadww02

Borehole ID:
GWDB

Soil Drilling Log

Project Name : Hallertau 5 Fed #4
 Project No. : 212C-MD-02564
 Location : Lea County, New Mexico
 Coordinates : 32.0656322, -103.6901477
 Elevation : N/A

Date : Tuesday, December 21, 2021
 Sampler : Zeke Moreno
 Driller : Scarborough Drilling
 Method : Air Rotary

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
0		CALICHE, some sand, coarse, light tan to white, dry, no odor, no staining.	150ppm		50		fine SAND, well sorted, rounded, light tan, no moisture, no odor, no staining.		
		SAND with caliche, well sorted, well rounded, light tan, no moisture, no odor, no staining.	112ppm						
		"	72ppm						
5					55		"		
		fine SAND with some caliche (<20%), light tan, well sorted, well rounded, no moisture, no odor, no staining	41ppm						
			73ppm						
10		fine SAND, well sorted, rounded, light tan, no moisture, no odor, no staining.	44ppm		60		Total Depth = 55'		
		"			65				
15									
		"							
20					70				
		"			75				
25									
		fine SAND with some caliche pockets, well sorted and rounded sand grains, light tan, dry, no odor, no staining.			80				
30									
		fine SAND, well sorted, rounded, light tan, no moisture, no odor, no staining.			85				
35									
		"			90				
40									
		"			95				
45									
50					100				

* H.O. = Heavy Odor
 * H.S. = Heavy Staining

* L.O. = Low Odor
 * L.S. = Low Staining



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	02090		4	4	01	26S	31E	620329	3548533*

Driller License:

Driller Name:

Driller Company:

Drill Start Date:

Drill Finish Date: 12/31/1965

Plug Date:

Log File Date:

PCW Rev Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 5 GPM

Casing Size: 8.00

Depth Well: 350 feet

Depth Water: 335 feet

*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.

2/13/23 3:26 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

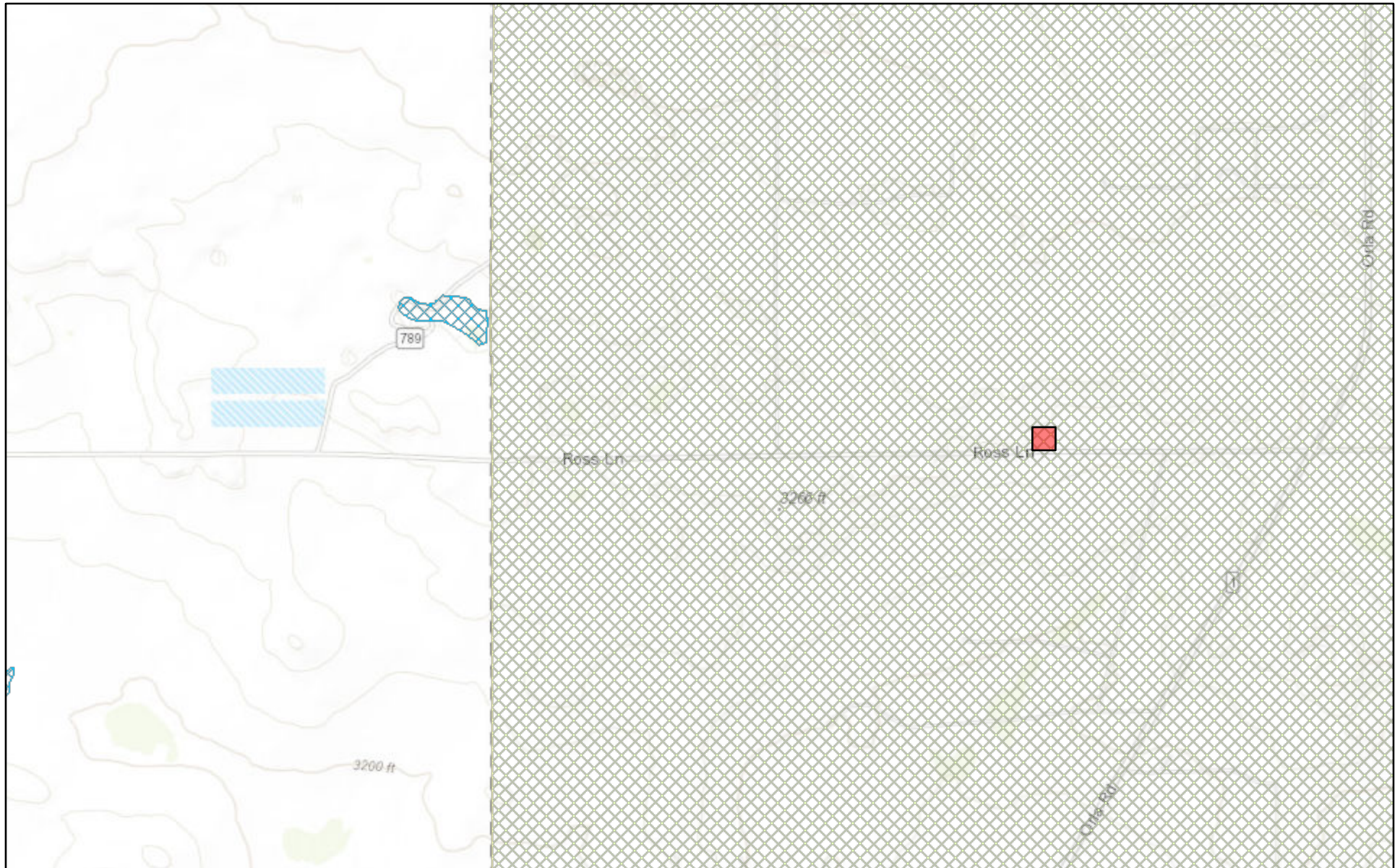
		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
NA	C 04209 POD1	2	3	3	06	26S	32E	620903	3548619		
Driller License:	1706	Driller Company:				ELITE DRILLERS CORPORATION					
Driller Name:	BRYCE WALLACE										
Drill Start Date:	04/28/2018	Drill Finish Date:				05/01/2018		Plug Date:			
Log File Date:	05/21/2018	PCW Rcv Date:						Source:		Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:		25 GPM	
Casing Size:	6.00	Depth Well:				360 feet		Depth Water:		155 feet	
Water Bearing Stratifications:				Top	Bottom	Description					
				15	350	Sandstone/Gravel/Conglomerate					
Casing Perforations:				Top	Bottom						
				200	360						

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.

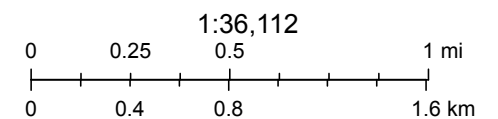
3/9/23 10:15 AM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



March 9, 2023



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

nmflood.org is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

APPENDIX E

CARMONA RESOURCES





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 13, 2023

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: HALLERTAU 5 FED #4

Enclosed are the results of analyses for samples received by the laboratory on 02/08/23 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: HALLERTAU 5 FED #4
 Project Number: 1231
 Project Location: CIMAREX - LEA CO., NM

Sampling Date: 02/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 1 (0-0.5') (H230574-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	102	2.00	0.234		
Toluene*	<0.050	0.050	02/11/2023	ND	2.03	101	2.00	0.802		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	1.97	98.5	2.00	0.378		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	5.96	99.3	6.00	0.587		
Total BTEX	<0.300	0.300	02/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/10/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: HALLERTAU 5 FED #4
 Project Number: 1231
 Project Location: CIMAREX - LEA CO., NM

Sampling Date: 02/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 2 (0-0.5') (H230574-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	102	2.00	0.234	
Toluene*	<0.050	0.050	02/11/2023	ND	2.03	101	2.00	0.802	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	1.97	98.5	2.00	0.378	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	5.96	99.3	6.00	0.587	
Total BTX	<0.300	0.300	02/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/10/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: HALLERTAU 5 FED #4
 Project Number: 1231
 Project Location: CIMAREX - LEA CO., NM

Sampling Date: 02/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 3 (0-0.5') (H230574-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	102	2.00	0.234		
Toluene*	<0.050	0.050	02/11/2023	ND	2.03	101	2.00	0.802		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	1.97	98.5	2.00	0.378		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	5.96	99.3	6.00	0.587		
Total BTEX	<0.300	0.300	02/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: HALLERTAU 5 FED #4
 Project Number: 1231
 Project Location: CIMAREX - LEA CO., NM

Sampling Date: 02/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 4 (0-0.5') (H230574-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	0.234		
Toluene*	<0.050	0.050	02/12/2023	ND	2.03	101	2.00	0.802		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.97	98.5	2.00	0.378		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	5.96	99.3	6.00	0.587		
Total BTEx	<0.300	0.300	02/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/10/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: HALLERTAU 5 FED #4
 Project Number: 1231
 Project Location: CIMAREX - LEA CO., NM

Sampling Date: 02/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 5 (0-0.5') (H230574-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	0.234		
Toluene*	<0.050	0.050	02/12/2023	ND	2.03	101	2.00	0.802		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.97	98.5	2.00	0.378		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	5.96	99.3	6.00	0.587		
Total BTEx	<0.300	0.300	02/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/10/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: HALLERTAU 5 FED #4
 Project Number: 1231
 Project Location: CIMAREX - LEA CO., NM

Sampling Date: 02/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 6 (0-0.5') (H230574-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	0.234		
Toluene*	<0.050	0.050	02/12/2023	ND	2.03	101	2.00	0.802		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.97	98.5	2.00	0.378		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	5.96	99.3	6.00	0.587		
Total BTEX	<0.300	0.300	02/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 1830574

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Project Manager: Ashton Thielke		Bill to: (if different) Laci Luig	
Company Name: Carmona Resources		Company Name: Cimarex Energy	
Address: 310 West Wall Ste. 415		Address: 600 N Marientfield St, Suite 600	
City, State ZIP: Midland, TX 79701		City, State ZIP: Midland, TX 79701	
Phone: 432-813-5347		Email: laci.luig@coierra.com	

Project Name: Hallertau 5 Fed #4	Turn Around ☐ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number: 1231	Due Date: Standard														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 Co. NM	TAT starts the day received by the lab, if received by 4:30pm															
Sampler's Name: AT																
PO #:																

SAMPLE RECEIPT		Temp Blank: Yes ☒ No ☐	Wet Ice: Yes ☒ No ☐	Thermometer ID: 113	Parameters											
Received Intact: Yes ☒ No ☐	Correction Factor: N/A	Temperature Reading: 4.9°C	Corrected Temperature: 4.3°C													
Cooler Custody Seals: Yes ☒ No ☐																
Sample Custody Seals: Yes ☒ No ☐																
Total Containers:																

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST												Sample Comments
H-1 (0-0.5')	2/7/2023		X		Grab/	1	X	X	X										
H-2 (0-0.5')	2/7/2023		X		Grab/	1	X	X	X										
H-3 (0-0.5')	2/7/2023		X		Grab/	1	X	X	X										
H-4 (0-0.5')	2/7/2023		X		Grab/	1	X	X	X										
H-5 (0-0.5')	2/7/2023		X		Grab/	1	X	X	X										
H-6 (0-0.5')	2/7/2023		X		Grab/	1	X	X	X										

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>[Signature]</i>	2. <i>[Signature]</i>	2823 1410	4. <i>[Signature]</i>	6. <i>[Signature]</i>	
3. <i>[Signature]</i>					
5. <i>[Signature]</i>					



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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 3/27/2023 1:13:52 PM

JOB DESCRIPTION

Hallertau 5 Fed #4
SDG NUMBER Lea Co, NM

JOB NUMBER

880-26165-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

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

Authorization

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3/27/2023 1:13:52 PM

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

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Laboratory Job ID: 880-26165-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

HPLC/IC

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

Glossary

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

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Job ID: 880-26165-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-26165-1**

Receipt

The samples were received on 3/21/2023 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 2.2°C

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-49192/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-28 (2.5'-3') (880-26165-61), SW-29 (2.5'-3') (880-26165-62), (CCV 880-49342/2), (CCV 880-49342/20), (CCV 880-49342/33), (LCS 880-49291/1-A), (LCSD 880-49291/2-A), (MB 880-49291/5-A), (890-4309-A-1-F), (890-4309-A-1-D MS) and (890-4309-A-1-E MSD). 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: (890-4308-A-41-F MS). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-49193/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49215 and analytical batch 880-49160 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49215/2-A) and (LCSD 880-49215/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-28 (2.5'-3') (880-26165-61). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49171 and analytical batch 880-49153 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49182 and analytical batch 880-49153 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-49182/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-49171 and 880-49171 and analytical batch 880-49153 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 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49183 and analytical batch 880-49155

Case Narrative

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Job ID: 880-26165-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-49155/47), (LCS 880-49183/2-A) and (LCSD 880-49183/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-49183 and analytical batch 880-49155 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49168 and analytical batch 880-49408 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 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49169 and analytical batch 880-49417 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: CS-31 (2.5'-3') (880-26165-31), CS-32 (2.5'-3') (880-26165-32), CS-33 (2.5'-3') (880-26165-33), SW-1 (2.5'-3') (880-26165-34), SW-2 (2.5'-3') (880-26165-35), SW-3 (2.5'-3') (880-26165-36), SW-4 (2.5'-3') (880-26165-37), SW-5 (2.5'-3') (880-26165-38), SW-6 (2.5'-3') (880-26165-39), SW-7(2.5'-3') (880-26165-40), (880-26165-A-31-B MS) and (880-26165-A-31-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: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-1 (2.5'-3')

Lab Sample ID: 880-26165-1

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:22	03/24/23 06:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:22	03/24/23 06:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:22	03/24/23 06:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 11:22	03/24/23 06:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:22	03/24/23 06:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 11:22	03/24/23 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/22/23 11:22	03/24/23 06:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/22/23 11:22	03/24/23 06:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/24/23 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 10:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		03/22/23 10:06	03/22/23 10:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	03/22/23 10:06	03/22/23 10:43	1
o-Terphenyl	89		70 - 130	03/22/23 10:06	03/22/23 10:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.9	F1	5.05		mg/Kg			03/23/23 00:07	1

Client Sample ID: CS-2 (2.5'-3')

Lab Sample ID: 880-26165-2

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:22	03/24/23 06:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:22	03/24/23 06:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:22	03/24/23 06:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 11:22	03/24/23 06:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:22	03/24/23 06:42	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 11:22	03/24/23 06:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/22/23 11:22	03/24/23 06:42	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/22/23 11:22	03/24/23 06:42	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-2 (2.5'-3')

Lab Sample ID: 880-26165-2

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/24/23 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 11:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		03/22/23 10:06	03/22/23 11:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 11:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/22/23 10:06	03/22/23 11:50	1
o-Terphenyl	93		70 - 130				03/22/23 10:06	03/22/23 11:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.1		5.02		mg/Kg			03/23/23 00:22	1

Client Sample ID: CS-3 (2.5'-3')

Lab Sample ID: 880-26165-3

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:22	03/24/23 07:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 07:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 07:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:22	03/24/23 07:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 07:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:22	03/24/23 07:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				03/22/23 11:22	03/24/23 07:03	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/22/23 11:22	03/24/23 07:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/24/23 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:06	03/22/23 12:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		03/22/23 10:06	03/22/23 12:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-3 (2.5'-3')

Lab Sample ID: 880-26165-3

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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)	<50.0	U	50.0		mg/Kg		03/22/23 10:06	03/22/23 12:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				03/22/23 10:06	03/22/23 12:12	1
o-Terphenyl	95		70 - 130				03/22/23 10:06	03/22/23 12:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		5.01		mg/Kg			03/23/23 00:27	1

Client Sample ID: CS-4 (2.5'-3')

Lab Sample ID: 880-26165-4

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:22	03/24/23 07:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 07:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 07:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:22	03/24/23 07:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 07:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:22	03/24/23 07:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/22/23 11:22	03/24/23 07:23	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/22/23 11:22	03/24/23 07:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/24/23 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/23/23 12:03	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	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 12:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		03/22/23 10:06	03/22/23 12:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/22/23 10:06	03/22/23 12:33	1
o-Terphenyl	110		70 - 130				03/22/23 10:06	03/22/23 12:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		5.04		mg/Kg			03/23/23 00:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-5 (2.5'-3')

Lab Sample ID: 880-26165-5

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:22	03/24/23 07:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 07:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 07:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:22	03/24/23 07:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 07:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:22	03/24/23 07:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	03/22/23 11:22	03/24/23 07:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/22/23 11:22	03/24/23 07:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/24/23 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 12:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		03/22/23 10:06	03/22/23 12:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	03/22/23 10:06	03/22/23 12:56	1
o-Terphenyl	95		70 - 130	03/22/23 10:06	03/22/23 12:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		4.98		mg/Kg			03/23/23 00:36	1

Client Sample ID: CS-6 (2.5'-3')

Lab Sample ID: 880-26165-6

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:22	03/24/23 08:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 08:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 08:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:22	03/24/23 08:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 08:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:22	03/24/23 08:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/22/23 11:22	03/24/23 08:05	1
1,4-Difluorobenzene (Surr)	84		70 - 130	03/22/23 11:22	03/24/23 08:05	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-6 (2.5'-3')

Lab Sample ID: 880-26165-6

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			03/24/23 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/23/23 12:03	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	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 13:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		03/22/23 10:06	03/22/23 13:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/22/23 10:06	03/22/23 13:17	1
o-Terphenyl	86		70 - 130				03/22/23 10:06	03/22/23 13:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.4		25.0		mg/Kg			03/23/23 00:51	5

Client Sample ID: CS-7 (2.5'-3')

Lab Sample ID: 880-26165-7

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:22	03/24/23 08:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:22	03/24/23 08:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:22	03/24/23 08:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 11:22	03/24/23 08:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:22	03/24/23 08:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 11:22	03/24/23 08:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				03/22/23 11:22	03/24/23 08:25	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/22/23 11:22	03/24/23 08:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/24/23 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 13:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		03/22/23 10:06	03/22/23 13:40	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-7 (2.5'-3')

Lab Sample ID: 880-26165-7

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 10:06	03/22/23 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/22/23 10:06	03/22/23 13:40	1
o-Terphenyl	98		70 - 130				03/22/23 10:06	03/22/23 13:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.8		4.97		mg/Kg			03/23/23 00:56	1

Client Sample ID: CS-8 (2.5'-3')

Lab Sample ID: 880-26165-8

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:22	03/24/23 08:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:22	03/24/23 08:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:22	03/24/23 08:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/22/23 11:22	03/24/23 08:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:22	03/24/23 08:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/22/23 11:22	03/24/23 08:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/22/23 11:22	03/24/23 08:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/22/23 11:22	03/24/23 08:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/24/23 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		03/22/23 10:06	03/22/23 14:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/22/23 10:06	03/22/23 14:02	1
o-Terphenyl	91		70 - 130				03/22/23 10:06	03/22/23 14:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.9		5.03		mg/Kg			03/23/23 01:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-9 (2.5'-3')

Lab Sample ID: 880-26165-9

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:22	03/24/23 09:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:22	03/24/23 09:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:22	03/24/23 09:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 11:22	03/24/23 09:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:22	03/24/23 09:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 11:22	03/24/23 09:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/22/23 11:22	03/24/23 09:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/22/23 11:22	03/24/23 09:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/24/23 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:06	03/22/23 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		03/22/23 10:06	03/22/23 14:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:06	03/22/23 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	03/22/23 10:06	03/22/23 14:24	1
o-Terphenyl	80		70 - 130	03/22/23 10:06	03/22/23 14:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.4		5.00		mg/Kg			03/23/23 01:06	1

Client Sample ID: CS-10 (2.5'-3')

Lab Sample ID: 880-26165-10

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:22	03/24/23 09:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 09:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 09:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:22	03/24/23 09:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:22	03/24/23 09:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:22	03/24/23 09:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	03/22/23 11:22	03/24/23 09:27	1
1,4-Difluorobenzene (Surr)	73		70 - 130	03/22/23 11:22	03/24/23 09:27	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-10 (2.5'-3')

Lab Sample ID: 880-26165-10

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			03/24/23 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:06	03/22/23 14:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		03/22/23 10:06	03/22/23 14:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:06	03/22/23 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				03/22/23 10:06	03/22/23 14:46	1
o-Terphenyl	82		70 - 130				03/22/23 10:06	03/22/23 14:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.6		5.02		mg/Kg			03/23/23 01:10	1

Client Sample ID: CS-11 (2.5'-3')

Lab Sample ID: 880-26165-11

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/24/23 10:17	03/26/23 06:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 06:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 06:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 06:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 06:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 06:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/24/23 10:17	03/26/23 06:08	1
1,4-Difluorobenzene (Surr)	83		70 - 130				03/24/23 10:17	03/26/23 06:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/26/23 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/23/23 12:03	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	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 15:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		03/22/23 10:06	03/22/23 15:30	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-11 (2.5'-3')

Lab Sample ID: 880-26165-11

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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)	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 15:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				03/22/23 10:06	03/22/23 15:30	1
o-Terphenyl	104		70 - 130				03/22/23 10:06	03/22/23 15:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.9		5.02		mg/Kg			03/23/23 01:15	1

Client Sample ID: CS-12 (2.5'-3')

Lab Sample ID: 880-26165-12

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/24/23 10:17	03/26/23 06:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/24/23 10:17	03/26/23 06:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/24/23 10:17	03/26/23 06:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/24/23 10:17	03/26/23 06:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/24/23 10:17	03/26/23 06:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/24/23 10:17	03/26/23 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				03/24/23 10:17	03/26/23 06:29	1
1,4-Difluorobenzene (Surr)	83		70 - 130				03/24/23 10:17	03/26/23 06:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/26/23 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:06	03/22/23 15:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		03/22/23 10:06	03/22/23 15:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:06	03/22/23 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/22/23 10:06	03/22/23 15:52	1
o-Terphenyl	104		70 - 130				03/22/23 10:06	03/22/23 15:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.2		4.98		mg/Kg			03/23/23 01:30	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-13 (2.5'-3')

Lab Sample ID: 880-26165-13

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/24/23 10:17	03/26/23 06:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 06:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 06:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 06:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 06:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 06:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/24/23 10:17	03/26/23 06:49	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/24/23 10:17	03/26/23 06:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/26/23 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:06	03/22/23 16:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		03/22/23 10:06	03/22/23 16:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:06	03/22/23 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/22/23 10:06	03/22/23 16:14	1
o-Terphenyl	98		70 - 130	03/22/23 10:06	03/22/23 16:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436		4.96		mg/Kg			03/23/23 01:35	1

Client Sample ID: CS-14 (2.5'-3')

Lab Sample ID: 880-26165-14

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/24/23 10:17	03/26/23 07:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 07:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 07:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 07:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 07:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/24/23 10:17	03/26/23 07:10	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/24/23 10:17	03/26/23 07:10	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-14 (2.5'-3')

Lab Sample ID: 880-26165-14

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			03/26/23 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:06	03/22/23 16:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		03/22/23 10:06	03/22/23 16:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:06	03/22/23 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				03/22/23 10:06	03/22/23 16:36	1
o-Terphenyl	92		70 - 130				03/22/23 10:06	03/22/23 16:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.00		mg/Kg			03/23/23 01:49	1

Client Sample ID: CS-15 (2.5'-3')

Lab Sample ID: 880-26165-15

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/24/23 10:17	03/26/23 07:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 07:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 07:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/24/23 10:17	03/26/23 07:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 07:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/24/23 10:17	03/26/23 07:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				03/24/23 10:17	03/26/23 07:31	1
1,4-Difluorobenzene (Surr)	87		70 - 130				03/24/23 10:17	03/26/23 07:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/26/23 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/23/23 12:03	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	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 16:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		03/22/23 10:06	03/22/23 16:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-15 (2.5'-3')

Lab Sample ID: 880-26165-15

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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)	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				03/22/23 10:06	03/22/23 16:57	1
o-Terphenyl	93		70 - 130				03/22/23 10:06	03/22/23 16:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		4.95		mg/Kg			03/23/23 01:54	1

Client Sample ID: CS-16 (2.5'-3')

Lab Sample ID: 880-26165-16

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/24/23 10:17	03/26/23 07:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 07:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 07:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/24/23 10:17	03/26/23 07:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 07:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/24/23 10:17	03/26/23 07:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/24/23 10:17	03/26/23 07:51	1
1,4-Difluorobenzene (Surr)	82		70 - 130				03/24/23 10:17	03/26/23 07:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/26/23 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:06	03/22/23 17:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		03/22/23 10:06	03/22/23 17:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:06	03/22/23 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/22/23 10:06	03/22/23 17:19	1
o-Terphenyl	101		70 - 130				03/22/23 10:06	03/22/23 17:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		4.95		mg/Kg			03/23/23 01:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-17 (2.5'-3')

Lab Sample ID: 880-26165-17

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/24/23 10:17	03/26/23 08:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/24/23 10:17	03/26/23 08:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/24/23 10:17	03/26/23 08:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/24/23 10:17	03/26/23 08:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/24/23 10:17	03/26/23 08:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/24/23 10:17	03/26/23 08:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	03/24/23 10:17	03/26/23 08:12	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/24/23 10:17	03/26/23 08:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/27/23 10:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		03/22/23 10:06	03/22/23 17:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/22/23 10:06	03/22/23 17:41	1
o-Terphenyl	99		70 - 130	03/22/23 10:06	03/22/23 17:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.6		5.04		mg/Kg			03/23/23 02:04	1

Client Sample ID: CS-18 (2.5'-3')

Lab Sample ID: 880-26165-18

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/24/23 10:17	03/26/23 08:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 08:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 08:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 08:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 08:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 08:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/24/23 10:17	03/26/23 08:32	1
1,4-Difluorobenzene (Surr)	80		70 - 130	03/24/23 10:17	03/26/23 08:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-18 (2.5'-3')

Lab Sample ID: 880-26165-18

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			03/27/23 10:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/23/23 12:03	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	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 18:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		03/22/23 10:06	03/22/23 18:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				03/22/23 10:06	03/22/23 18:03	1
o-Terphenyl	88		70 - 130				03/22/23 10:06	03/22/23 18:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.9		4.98		mg/Kg			03/23/23 02:09	1

Client Sample ID: CS-19 (2.5'-3')

Lab Sample ID: 880-26165-19

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/24/23 10:17	03/26/23 08:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 08:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 08:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 08:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:17	03/26/23 08:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 10:17	03/26/23 08:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				03/24/23 10:17	03/26/23 08:53	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/24/23 10:17	03/26/23 08:53	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			03/27/23 10:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:06	03/22/23 18:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		03/22/23 10:06	03/22/23 18:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-19 (2.5'-3')

Lab Sample ID: 880-26165-19

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 10:06	03/22/23 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/22/23 10:06	03/22/23 18:26	1
o-Terphenyl	92		70 - 130				03/22/23 10:06	03/22/23 18:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.1		5.03		mg/Kg			03/23/23 02:13	1

Client Sample ID: CS-20 (2.5'-3')

Lab Sample ID: 880-26165-20

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/24/23 10:17	03/26/23 09:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 09:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 09:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/24/23 10:17	03/26/23 09:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 09:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/24/23 10:17	03/26/23 09:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				03/24/23 10:17	03/26/23 09:13	1
1,4-Difluorobenzene (Surr)	83		70 - 130				03/24/23 10:17	03/26/23 09:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 10:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/23/23 12:03	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	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 18:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		03/22/23 10:06	03/22/23 18:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/22/23 10:06	03/22/23 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				03/22/23 10:06	03/22/23 18:48	1
o-Terphenyl	96		70 - 130				03/22/23 10:06	03/22/23 18:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.3		5.00		mg/Kg			03/23/23 02:18	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-21 (2.5'-3')

Lab Sample ID: 880-26165-21

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/26/23 21:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/26/23 21:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/26/23 21:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/26/23 21:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/26/23 21:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/26/23 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/22/23 11:25	03/26/23 21:31	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/22/23 11:25	03/26/23 21:31	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			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:31	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	<50.0	U F2	50.0		mg/Kg		03/22/23 10:42	03/22/23 20:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/22/23 20:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/22/23 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/22/23 10:42	03/22/23 20:41	1
o-Terphenyl	107		70 - 130	03/22/23 10:42	03/22/23 20:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.6		4.97		mg/Kg			03/23/23 02:44	1

Client Sample ID: CS-22 (2.5'-3')

Lab Sample ID: 880-26165-22

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/26/23 21:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/26/23 21:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/26/23 21:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 11:25	03/26/23 21:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/26/23 21:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 11:25	03/26/23 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/22/23 11:25	03/26/23 21:57	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/22/23 11:25	03/26/23 21:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-22 (2.5'-3')

Lab Sample ID: 880-26165-22

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/22/23 21:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/22/23 21:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/22/23 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				03/22/23 10:42	03/22/23 21:48	1
o-Terphenyl	94		70 - 130				03/22/23 10:42	03/22/23 21:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.5		5.01		mg/Kg			03/23/23 02:58	1

Client Sample ID: CS-23 (2.5'-3')

Lab Sample ID: 880-26165-23

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/26/23 22:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:25	03/26/23 22:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:25	03/26/23 22:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 11:25	03/26/23 22:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:25	03/26/23 22:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 11:25	03/26/23 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/22/23 11:25	03/26/23 22:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/22/23 11:25	03/26/23 22:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/22/23 22:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/22/23 22:11	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-23 (2.5'-3')

Lab Sample ID: 880-26165-23

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 10:42	03/22/23 22:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				03/22/23 10:42	03/22/23 22:11	1
o-Terphenyl	84		70 - 130				03/22/23 10:42	03/22/23 22:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.16		5.00		mg/Kg			03/23/23 03:03	1

Client Sample ID: CS-24 (2.5'-3')

Lab Sample ID: 880-26165-24

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/26/23 22:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/26/23 22:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/26/23 22:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/22/23 11:25	03/26/23 22:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/26/23 22:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/22/23 11:25	03/26/23 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				03/22/23 11:25	03/26/23 22:50	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/22/23 11:25	03/26/23 22:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:31	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	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/22/23 22:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/22/23 22:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/22/23 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/22/23 10:42	03/22/23 22:33	1
o-Terphenyl	106		70 - 130				03/22/23 10:42	03/22/23 22:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	266		4.98		mg/Kg			03/23/23 03:08	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-25 (2.5'-3')

Lab Sample ID: 880-26165-25

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/26/23 23:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:25	03/26/23 23:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:25	03/26/23 23:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 11:25	03/26/23 23:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:25	03/26/23 23:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 11:25	03/26/23 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/22/23 11:25	03/26/23 23:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/22/23 11:25	03/26/23 23:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/22/23 10:42	03/22/23 22:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/22/23 10:42	03/22/23 22:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/22/23 10:42	03/22/23 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	03/22/23 10:42	03/22/23 22:55	1
o-Terphenyl	91		70 - 130	03/22/23 10:42	03/22/23 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.4		4.98		mg/Kg			03/23/23 03:13	1

Client Sample ID: CS-26 (2.5'-3')

Lab Sample ID: 880-26165-26

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/26/23 23:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/26/23 23:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/26/23 23:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/26/23 23:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/26/23 23:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/26/23 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	03/22/23 11:25	03/26/23 23:43	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/22/23 11:25	03/26/23 23:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-26 (2.5'-3')

Lab Sample ID: 880-26165-26

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/22/23 23:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/22/23 23:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/22/23 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				03/22/23 10:42	03/22/23 23:17	1
o-Terphenyl	92		70 - 130				03/22/23 10:42	03/22/23 23:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.2		5.04		mg/Kg			03/23/23 03:42	1

Client Sample ID: CS-27 (2.5'-3')

Lab Sample ID: 880-26165-27

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 00:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 00:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 00:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 11:25	03/27/23 00:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 00:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 11:25	03/27/23 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				03/22/23 11:25	03/27/23 00:09	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/22/23 11:25	03/27/23 00:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/22/23 23:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/22/23 23:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-27 (2.5'-3')

Lab Sample ID: 880-26165-27

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 10:42	03/22/23 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				03/22/23 10:42	03/22/23 23:39	1
o-Terphenyl	88		70 - 130				03/22/23 10:42	03/22/23 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		5.02		mg/Kg			03/23/23 03:27	1

Client Sample ID: CS-28 (2.5'-3')

Lab Sample ID: 880-26165-28

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 00:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 00:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 00:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 00:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 00:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 00:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				03/22/23 11:25	03/27/23 00:35	1
1,4-Difluorobenzene (Surr)	114		70 - 130				03/22/23 11:25	03/27/23 00:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 00:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 00:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				03/22/23 10:42	03/23/23 00:01	1
o-Terphenyl	89		70 - 130				03/22/23 10:42	03/23/23 00:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.5		5.03		mg/Kg			03/23/23 03:32	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-29 (2.5'-3')

Lab Sample ID: 880-26165-29

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 01:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 01:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 01:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 01:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 01:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 01:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/22/23 11:25	03/27/23 01:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/22/23 11:25	03/27/23 01:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 00:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 00:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/22/23 10:42	03/23/23 00:23	1
o-Terphenyl	104		70 - 130	03/22/23 10:42	03/23/23 00:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.08		5.02		mg/Kg			03/23/23 03:37	1

Client Sample ID: CS-30 (2.5'-3')

Lab Sample ID: 880-26165-30

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 01:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 01:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 01:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 11:25	03/27/23 01:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 01:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 11:25	03/27/23 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	03/22/23 11:25	03/27/23 01:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/22/23 11:25	03/27/23 01:27	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-30 (2.5'-3')

Lab Sample ID: 880-26165-30

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:31	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	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/23/23 00:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/23/23 00:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/23/23 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				03/22/23 10:42	03/23/23 00:45	1
o-Terphenyl	86		70 - 130				03/22/23 10:42	03/23/23 00:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7		5.00		mg/Kg			03/23/23 03:47	1

Client Sample ID: CS-31 (2.5'-3')

Lab Sample ID: 880-26165-31

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 03:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 03:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 03:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/22/23 11:25	03/27/23 03:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 03:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/22/23 11:25	03/27/23 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/22/23 11:25	03/27/23 03:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130				03/22/23 11:25	03/27/23 03:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/22/23 10:42	03/23/23 01:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/22/23 10:42	03/23/23 01:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-31 (2.5'-3')

Lab Sample ID: 880-26165-31

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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)	<49.8	U	49.8		mg/Kg		03/22/23 10:42	03/23/23 01:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				03/22/23 10:42	03/23/23 01:29	1
o-Terphenyl	108		70 - 130				03/22/23 10:42	03/23/23 01:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1	F1	4.99		mg/Kg			03/23/23 03:52	1

Client Sample ID: CS-32 (2.5'-3')

Lab Sample ID: 880-26165-32

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 03:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 03:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 03:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 03:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 03:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				03/22/23 11:25	03/27/23 03:39	1
1,4-Difluorobenzene (Surr)	97		70 - 130				03/22/23 11:25	03/27/23 03:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:31	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	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/23/23 01:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/23/23 01:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/23/23 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				03/22/23 10:42	03/23/23 01:51	1
o-Terphenyl	104		70 - 130				03/22/23 10:42	03/23/23 01:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.98		4.96		mg/Kg			03/23/23 04:06	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-33 (2.5'-3')

Lab Sample ID: 880-26165-33

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 04:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 04:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 04:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 04:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 04:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/22/23 11:25	03/27/23 04:06	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/22/23 11:25	03/27/23 04:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 02:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 02:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	03/22/23 10:42	03/23/23 02:12	1
o-Terphenyl	96		70 - 130	03/22/23 10:42	03/23/23 02:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.1		5.04		mg/Kg			03/23/23 04:11	1

Client Sample ID: SW-1 (2.5'-3')

Lab Sample ID: 880-26165-34

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 04:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:25	03/27/23 04:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:25	03/27/23 04:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 11:25	03/27/23 04:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:25	03/27/23 04:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 11:25	03/27/23 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/22/23 11:25	03/27/23 04:32	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/22/23 11:25	03/27/23 04:32	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-1 (2.5'-3')

Lab Sample ID: 880-26165-34

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 02:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 02:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				03/22/23 10:42	03/23/23 02:34	1
o-Terphenyl	96		70 - 130				03/22/23 10:42	03/23/23 02:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.7		5.05		mg/Kg			03/23/23 04:26	1

Client Sample ID: SW-2 (2.5'-3')

Lab Sample ID: 880-26165-35

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 04:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 04:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 04:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 04:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 04:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 04:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				03/22/23 11:25	03/27/23 04:59	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/22/23 11:25	03/27/23 04:59	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			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 02:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 02:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-2 (2.5'-3')

Lab Sample ID: 880-26165-35

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 10:42	03/23/23 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/22/23 10:42	03/23/23 02:56	1
o-Terphenyl	94		70 - 130				03/22/23 10:42	03/23/23 02:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.1		5.05		mg/Kg			03/23/23 04:30	1

Client Sample ID: SW-3 (2.5'-3')

Lab Sample ID: 880-26165-36

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 05:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 05:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 05:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 05:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:25	03/27/23 05:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:25	03/27/23 05:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				03/22/23 11:25	03/27/23 05:25	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/22/23 11:25	03/27/23 05:25	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			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:31	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	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/23/23 03:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/23/23 03:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/23/23 03:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				03/22/23 10:42	03/23/23 03:18	1
o-Terphenyl	113		70 - 130				03/22/23 10:42	03/23/23 03:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222		5.05		mg/Kg			03/23/23 04:35	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-4 (2.5'-3')

Lab Sample ID: 880-26165-37

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:25	03/27/23 05:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:25	03/27/23 05:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:25	03/27/23 05:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/22/23 11:25	03/27/23 05:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:25	03/27/23 05:51	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/22/23 11:25	03/27/23 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/22/23 11:25	03/27/23 05:51	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/22/23 11:25	03/27/23 05:51	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			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 03:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 03:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/22/23 10:42	03/23/23 03:40	1
o-Terphenyl	112		70 - 130	03/22/23 10:42	03/23/23 03:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	587		4.99		mg/Kg			03/23/23 04:40	1

Client Sample ID: SW-5 (2.5'-3')

Lab Sample ID: 880-26165-38

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 06:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:25	03/27/23 06:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:25	03/27/23 06:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 11:25	03/27/23 06:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:25	03/27/23 06:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 11:25	03/27/23 06:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/22/23 11:25	03/27/23 06:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/22/23 11:25	03/27/23 06:17	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-5 (2.5'-3')

Lab Sample ID: 880-26165-38

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 04:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 04:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				03/22/23 10:42	03/23/23 04:02	1
o-Terphenyl	98		70 - 130				03/22/23 10:42	03/23/23 04:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		4.98		mg/Kg			03/23/23 04:45	1

Client Sample ID: SW-6 (2.5'-3')

Lab Sample ID: 880-26165-39

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 06:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 06:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 06:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 11:25	03/27/23 06:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/27/23 06:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 11:25	03/27/23 06:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				03/22/23 11:25	03/27/23 06:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130				03/22/23 11:25	03/27/23 06:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 04:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 04:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-6 (2.5'-3')

Lab Sample ID: 880-26165-39

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 10:42	03/23/23 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/22/23 10:42	03/23/23 04:24	1
o-Terphenyl	113		70 - 130				03/22/23 10:42	03/23/23 04:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		5.00		mg/Kg			03/23/23 04:50	1

Client Sample ID: SW-7(2.5'-3')

Lab Sample ID: 880-26165-40

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:25	03/27/23 07:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:25	03/27/23 07:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:25	03/27/23 07:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 11:25	03/27/23 07:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:25	03/27/23 07:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 11:25	03/27/23 07:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				03/22/23 11:25	03/27/23 07:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/22/23 11:25	03/27/23 07:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/27/23 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 04:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 04:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:42	03/23/23 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				03/22/23 10:42	03/23/23 04:45	1
o-Terphenyl	95		70 - 130				03/22/23 10:42	03/23/23 04:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		4.96		mg/Kg			03/23/23 04:55	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-8 (2.5'-3')

Lab Sample ID: 880-26165-41

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 02:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:27	03/27/23 02:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:27	03/27/23 02:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 11:27	03/27/23 02:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:27	03/27/23 02:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 11:27	03/27/23 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/22/23 11:27	03/27/23 02:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/22/23 11:27	03/27/23 02:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 20:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 20:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/22/23 10:37	03/22/23 20:41	1
o-Terphenyl	105		70 - 130	03/22/23 10:37	03/22/23 20:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	296		5.00		mg/Kg			03/23/23 12:27	1

Client Sample ID: SW-9 (2.5'-3')

Lab Sample ID: 880-26165-42

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 02:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:27	03/27/23 02:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:27	03/27/23 02:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 11:27	03/27/23 02:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:27	03/27/23 02:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 11:27	03/27/23 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/22/23 11:27	03/27/23 02:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/22/23 11:27	03/27/23 02:43	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-9 (2.5'-3')

Lab Sample ID: 880-26165-42

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:37	03/22/23 21:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/22/23 21:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/22/23 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/22/23 10:37	03/22/23 21:48	1
o-Terphenyl	79		70 - 130				03/22/23 10:37	03/22/23 21:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	223		4.95		mg/Kg			03/23/23 12:42	1

Client Sample ID: SW-10 (2.5'-3')

Lab Sample ID: 880-26165-43

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 03:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 03:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 03:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 03:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 03:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				03/22/23 11:27	03/27/23 03:04	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/22/23 11:27	03/27/23 03:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 22:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 22:11	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-10 (2.5'-3')

Lab Sample ID: 880-26165-43

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 10:37	03/22/23 22:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				03/22/23 10:37	03/22/23 22:11	1
o-Terphenyl	97		70 - 130				03/22/23 10:37	03/22/23 22:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		5.01		mg/Kg			03/23/23 12:47	1

Client Sample ID: SW-11 (2.5'-3')

Lab Sample ID: 880-26165-44

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 03:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 03:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 03:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 11:27	03/27/23 03:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 03:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 11:27	03/27/23 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				03/22/23 11:27	03/27/23 03:24	1
1,4-Difluorobenzene (Surr)	104		70 - 130				03/22/23 11:27	03/27/23 03:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 22:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 22:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				03/22/23 10:37	03/22/23 22:33	1
o-Terphenyl	92		70 - 130				03/22/23 10:37	03/22/23 22:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.41		4.97		mg/Kg			03/23/23 12:51	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-12 (2.5'-3')

Lab Sample ID: 880-26165-45

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 03:45	1
Toluene	0.00476		0.00201		mg/Kg		03/22/23 11:27	03/27/23 03:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:27	03/27/23 03:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 11:27	03/27/23 03:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 11:27	03/27/23 03:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 11:27	03/27/23 03:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/22/23 11:27	03/27/23 03:45	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/22/23 11:27	03/27/23 03:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00476		0.00402		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 22:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 22:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/22/23 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				03/22/23 10:37	03/22/23 22:55	1
o-Terphenyl	76		70 - 130				03/22/23 10:37	03/22/23 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.1		5.02		mg/Kg			03/23/23 12:56	1

Client Sample ID: SW-13 (2.5'-3')

Lab Sample ID: 880-26165-46

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 04:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 04:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 04:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/22/23 11:27	03/27/23 04:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 04:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/22/23 11:27	03/27/23 04:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/22/23 11:27	03/27/23 04:05	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/22/23 11:27	03/27/23 04:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-13 (2.5'-3')

Lab Sample ID: 880-26165-46

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:37	03/22/23 23:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/22/23 23:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/22/23 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/22/23 10:37	03/22/23 23:17	1
o-Terphenyl	88		70 - 130				03/22/23 10:37	03/22/23 23:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		4.97		mg/Kg			03/23/23 13:11	1

Client Sample ID: SW-14 (2.5'-3')

Lab Sample ID: 880-26165-47

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 04:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 04:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 04:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 04:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 04:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/22/23 11:27	03/27/23 04:25	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/22/23 11:27	03/27/23 04:25	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			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:37	03/22/23 23:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/22/23 23:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-14 (2.5'-3')

Lab Sample ID: 880-26165-47

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/22/23 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/22/23 10:37	03/22/23 23:39	1
o-Terphenyl	87		70 - 130				03/22/23 10:37	03/22/23 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.5		5.04		mg/Kg			03/23/23 13:16	1

Client Sample ID: SW-15 (2.5'-3')

Lab Sample ID: 880-26165-48

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 04:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 04:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 04:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 04:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 04:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/22/23 11:27	03/27/23 04:46	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/22/23 11:27	03/27/23 04:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 00:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 00:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				03/22/23 10:37	03/23/23 00:01	1
o-Terphenyl	82		70 - 130				03/22/23 10:37	03/23/23 00:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.3		5.04		mg/Kg			03/23/23 13:20	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-16 (2.5'-3')

Lab Sample ID: 880-26165-49

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 05:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 05:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 05:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 11:27	03/27/23 05:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 05:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 11:27	03/27/23 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/22/23 11:27	03/27/23 05:06	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/22/23 11:27	03/27/23 05:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 00:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 00:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	03/22/23 10:37	03/23/23 00:23	1
o-Terphenyl	76		70 - 130	03/22/23 10:37	03/23/23 00:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.46		4.95		mg/Kg			03/23/23 13:25	1

Client Sample ID: SW-17 (2.5'-3')

Lab Sample ID: 880-26165-50

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 05:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:27	03/27/23 05:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:27	03/27/23 05:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 11:27	03/27/23 05:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:27	03/27/23 05:27	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 11:27	03/27/23 05:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/22/23 11:27	03/27/23 05:27	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/22/23 11:27	03/27/23 05:27	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-17 (2.5'-3')

Lab Sample ID: 880-26165-50

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 00:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 00:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/22/23 10:37	03/23/23 00:45	1
o-Terphenyl	82		70 - 130				03/22/23 10:37	03/23/23 00:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		4.97		mg/Kg			03/23/23 13:30	1

Client Sample ID: SW-18 (2.5'-3')

Lab Sample ID: 880-26165-51

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 07:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 07:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 07:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 07:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 07:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 07:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				03/22/23 11:27	03/27/23 07:16	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/22/23 11:27	03/27/23 07:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 01:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 01:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-18 (2.5'-3')

Lab Sample ID: 880-26165-51

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 10:37	03/23/23 01:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/22/23 10:37	03/23/23 01:29	1
o-Terphenyl	91		70 - 130				03/22/23 10:37	03/23/23 01:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.4		5.05		mg/Kg			03/23/23 13:35	1

Client Sample ID: SW-19 (2.5'-3')

Lab Sample ID: 880-26165-52

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 07:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 07:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 07:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 07:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 07:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 07:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				03/22/23 11:27	03/27/23 07:37	1
1,4-Difluorobenzene (Surr)	104		70 - 130				03/22/23 11:27	03/27/23 07:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:37	03/23/23 01:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/23/23 01:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/23/23 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				03/22/23 10:37	03/23/23 01:51	1
o-Terphenyl	80		70 - 130				03/22/23 10:37	03/23/23 01:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		5.00		mg/Kg			03/23/23 13:50	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-20 (2.5'-3')

Lab Sample ID: 880-26165-53

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:27	03/27/23 07:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:27	03/27/23 07:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:27	03/27/23 07:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/22/23 11:27	03/27/23 07:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/22/23 11:27	03/27/23 07:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/22/23 11:27	03/27/23 07:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/22/23 11:27	03/27/23 07:57	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/22/23 11:27	03/27/23 07:57	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			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:37	03/23/23 02:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/23/23 02:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/23/23 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	03/22/23 10:37	03/23/23 02:12	1
o-Terphenyl	90		70 - 130	03/22/23 10:37	03/23/23 02:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		4.96		mg/Kg			03/23/23 13:54	1

Client Sample ID: SW-21 (2.5'-3')

Lab Sample ID: 880-26165-54

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 08:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 08:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 08:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/22/23 11:27	03/27/23 08:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 08:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/22/23 11:27	03/27/23 08:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/22/23 11:27	03/27/23 08:18	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/22/23 11:27	03/27/23 08:18	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-21 (2.5'-3')

Lab Sample ID: 880-26165-54

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 02:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 02:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/22/23 10:37	03/23/23 02:34	1
o-Terphenyl	84		70 - 130				03/22/23 10:37	03/23/23 02:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.54		5.01		mg/Kg			03/23/23 14:09	1

Client Sample ID: SW-22 (2.5'-3')

Lab Sample ID: 880-26165-55

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 08:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 08:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 08:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/22/23 11:27	03/27/23 08:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 08:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/22/23 11:27	03/27/23 08:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/22/23 11:27	03/27/23 08:39	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/22/23 11:27	03/27/23 08:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 02:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 02:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-22 (2.5'-3')

Lab Sample ID: 880-26165-55

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 10:37	03/23/23 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				03/22/23 10:37	03/23/23 02:56	1
o-Terphenyl	86		70 - 130				03/22/23 10:37	03/23/23 02:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.3		5.04		mg/Kg			03/23/23 14:14	1

Client Sample ID: SW-23 (2.5'-3')

Lab Sample ID: 880-26165-56

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 08:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 08:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 08:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 11:27	03/27/23 08:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 08:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 11:27	03/27/23 08:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/22/23 11:27	03/27/23 08:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/22/23 11:27	03/27/23 08:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:37	03/23/23 03:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/23/23 03:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/23/23 03:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				03/22/23 10:37	03/23/23 03:18	1
o-Terphenyl	85		70 - 130				03/22/23 10:37	03/23/23 03:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.22		4.97		mg/Kg			03/23/23 14:19	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-24 (2.5'-3')

Lab Sample ID: 880-26165-57

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 09:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:27	03/27/23 09:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:27	03/27/23 09:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 11:27	03/27/23 09:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 11:27	03/27/23 09:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 11:27	03/27/23 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/22/23 11:27	03/27/23 09:20	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/22/23 11:27	03/27/23 09:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 03:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 03:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	03/22/23 10:37	03/23/23 03:40	1
o-Terphenyl	76		70 - 130	03/22/23 10:37	03/23/23 03:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.7		5.02		mg/Kg			03/23/23 14:24	1

Client Sample ID: SW-25 (2.5'-3')

Lab Sample ID: 880-26165-58

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 09:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 09:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 09:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 09:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 09:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 09:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/22/23 11:27	03/27/23 09:40	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/22/23 11:27	03/27/23 09:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-25 (2.5'-3')

Lab Sample ID: 880-26165-58

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 04:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 04:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				03/22/23 10:37	03/23/23 04:02	1
o-Terphenyl	83		70 - 130				03/22/23 10:37	03/23/23 04:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		5.03		mg/Kg			03/23/23 14:28	1

Client Sample ID: SW-26 (2.5'-3')

Lab Sample ID: 880-26165-59

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 10:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 10:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 10:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 10:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 11:27	03/27/23 10:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 11:27	03/27/23 10:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				03/22/23 11:27	03/27/23 10:01	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/22/23 11:27	03/27/23 10:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/27/23 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 12:03	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		03/22/23 10:37	03/23/23 04:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/23/23 04:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-26 (2.5'-3')

Lab Sample ID: 880-26165-59

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/23/23 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				03/22/23 10:37	03/23/23 04:24	1
o-Terphenyl	84		70 - 130				03/22/23 10:37	03/23/23 04:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.6		4.96		mg/Kg			03/23/23 14:33	1

Client Sample ID: SW-27 (2.5'-3')

Lab Sample ID: 880-26165-60

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/22/23 11:27	03/27/23 10:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 10:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 10:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 11:27	03/27/23 10:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 10:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 11:27	03/27/23 10:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/22/23 11:27	03/27/23 10:21	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/22/23 11:27	03/27/23 10:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 12:03	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	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 04:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 04:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 10:37	03/23/23 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/22/23 10:37	03/23/23 04:45	1
o-Terphenyl	95		70 - 130				03/22/23 10:37	03/23/23 04:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		4.97		mg/Kg			03/23/23 14:38	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-28 (2.5'-3')

Lab Sample ID: 880-26165-61

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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		03/23/23 08:54	03/24/23 02:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/23/23 08:54	03/24/23 02:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/23/23 08:54	03/24/23 02:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/23/23 08:54	03/24/23 02:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/23/23 08:54	03/24/23 02:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/23/23 08:54	03/24/23 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	176	S1+	70 - 130	03/23/23 08:54	03/24/23 02:05	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/23/23 08:54	03/24/23 02:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/24/23 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	<49.9	U	49.9		mg/Kg			03/23/23 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 20:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 20:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	03/22/23 13:15	03/22/23 20:21	1
o-Terphenyl	62	S1-	70 - 130	03/22/23 13:15	03/22/23 20:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.2		5.02		mg/Kg			03/24/23 18:37	1

Client Sample ID: SW-29 (2.5'-3')

Lab Sample ID: 880-26165-62

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/23/23 08:54	03/24/23 02:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/23/23 08:54	03/24/23 02:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/23/23 08:54	03/24/23 02:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/23/23 08:54	03/24/23 02:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/23/23 08:54	03/24/23 02:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/23/23 08:54	03/24/23 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130	03/23/23 08:54	03/24/23 02:31	1
1,4-Difluorobenzene (Surr)	80		70 - 130	03/23/23 08:54	03/24/23 02:31	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-29 (2.5'-3')

Lab Sample ID: 880-26165-62

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/24/23 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	<49.9	U	49.9		mg/Kg			03/23/23 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 21:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 21:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 21:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/22/23 13:15	03/22/23 21:26	1
o-Terphenyl	100		70 - 130				03/22/23 13:15	03/22/23 21:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		5.00		mg/Kg			03/24/23 18:51	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-26165-1	CS-1 (2.5'-3')	91	91
880-26165-1 MS	CS-1 (2.5'-3')	127	103
880-26165-1 MSD	CS-1 (2.5'-3')	129	101
880-26165-2	CS-2 (2.5'-3')	91	87
880-26165-3	CS-3 (2.5'-3')	91	91
880-26165-4	CS-4 (2.5'-3')	101	88
880-26165-5	CS-5 (2.5'-3')	93	95
880-26165-6	CS-6 (2.5'-3')	108	84
880-26165-7	CS-7 (2.5'-3')	88	102
880-26165-8	CS-8 (2.5'-3')	105	90
880-26165-9	CS-9 (2.5'-3')	94	94
880-26165-10	CS-10 (2.5'-3')	86	73
880-26165-11	CS-11 (2.5'-3')	101	83
880-26165-12	CS-12 (2.5'-3')	112	83
880-26165-13	CS-13 (2.5'-3')	106	90
880-26165-14	CS-14 (2.5'-3')	104	91
880-26165-15	CS-15 (2.5'-3')	87	87
880-26165-16	CS-16 (2.5'-3')	107	82
880-26165-17	CS-17 (2.5'-3')	87	95
880-26165-18	CS-18 (2.5'-3')	109	80
880-26165-19	CS-19 (2.5'-3')	97	96
880-26165-20	CS-20 (2.5'-3')	90	83
880-26165-21	CS-21 (2.5'-3')	99	93
880-26165-21 MS	CS-21 (2.5'-3')	108	128
880-26165-21 MSD	CS-21 (2.5'-3')	97	111
880-26165-22	CS-22 (2.5'-3')	108	92
880-26165-23	CS-23 (2.5'-3')	109	101
880-26165-24	CS-24 (2.5'-3')	114	96
880-26165-25	CS-25 (2.5'-3')	115	102
880-26165-26	CS-26 (2.5'-3')	123	108
880-26165-27	CS-27 (2.5'-3')	114	102
880-26165-28	CS-28 (2.5'-3')	127	114
880-26165-29	CS-29 (2.5'-3')	119	99
880-26165-30	CS-30 (2.5'-3')	122	107
880-26165-31	CS-31 (2.5'-3')	105	94
880-26165-32	CS-32 (2.5'-3')	117	97
880-26165-33	CS-33 (2.5'-3')	105	88
880-26165-34	SW-1 (2.5'-3')	115	94
880-26165-35	SW-2 (2.5'-3')	111	102
880-26165-36	SW-3 (2.5'-3')	119	98
880-26165-37	SW-4 (2.5'-3')	119	92
880-26165-38	SW-5 (2.5'-3')	113	98
880-26165-39	SW-6 (2.5'-3')	127	104
880-26165-40	SW-7(2.5'-3')	111	100
880-26165-41	SW-8 (2.5'-3')	90	105
880-26165-41 MS	SW-8 (2.5'-3')	100	109
880-26165-41 MSD	SW-8 (2.5'-3')	100	109
880-26165-42	SW-9 (2.5'-3')	99	107
880-26165-43	SW-10 (2.5'-3')	97	105

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Surrogate Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-26165-44	SW-11 (2.5'-3')	91	104
880-26165-45	SW-12 (2.5'-3')	100	89
880-26165-46	SW-13 (2.5'-3')	101	107
880-26165-47	SW-14 (2.5'-3')	103	106
880-26165-48	SW-15 (2.5'-3')	100	102
880-26165-49	SW-16 (2.5'-3')	101	103
880-26165-50	SW-17 (2.5'-3')	99	101
880-26165-51	SW-18 (2.5'-3')	95	107
880-26165-52	SW-19 (2.5'-3')	98	104
880-26165-53	SW-20 (2.5'-3')	102	106
880-26165-54	SW-21 (2.5'-3')	94	104
880-26165-55	SW-22 (2.5'-3')	99	106
880-26165-56	SW-23 (2.5'-3')	100	106
880-26165-57	SW-24 (2.5'-3')	98	106
880-26165-58	SW-25 (2.5'-3')	94	103
880-26165-59	SW-26 (2.5'-3')	95	105
880-26165-60	SW-27 (2.5'-3')	101	109
880-26165-61	SW-28 (2.5'-3')	176 S1+	83
880-26165-62	SW-29 (2.5'-3')	169 S1+	80
890-4308-A-41-F MS	Matrix Spike	133 S1+	98
890-4308-A-41-G MSD	Matrix Spike Duplicate	127	101
890-4309-A-1-D MS	Matrix Spike	171 S1+	87
890-4309-A-1-E MSD	Matrix Spike Duplicate	168 S1+	98
LCS 880-49192/1-A	Lab Control Sample	129	101
LCS 880-49193/1-A	Lab Control Sample	112	114
LCS 880-49196/1-A	Lab Control Sample	100	111
LCS 880-49291/1-A	Lab Control Sample	154 S1+	69 S1-
LCS 880-49394/1-A	Lab Control Sample	109	105
LCSD 880-49192/2-A	Lab Control Sample Dup	132 S1+	87
LCSD 880-49193/2-A	Lab Control Sample Dup	99	97
LCSD 880-49196/2-A	Lab Control Sample Dup	97	108
LCSD 880-49291/2-A	Lab Control Sample Dup	161 S1+	91
LCSD 880-49394/2-A	Lab Control Sample Dup	124	85
MB 880-49192/5-A	Method Blank	84	86
MB 880-49193/5-A	Method Blank	69 S1-	96
MB 880-49196/5-A	Method Blank	89	100
MB 880-49217/5-A	Method Blank	84	93
MB 880-49291/5-A	Method Blank	100	76
MB 880-49328/5-A	Method Blank	78	79
MB 880-49394/5-A	Method Blank	81	91
MB 880-49396/5-A	Method Blank	88	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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)
880-26165-1	CS-1 (2.5'-3')	87	89
880-26165-1 MS	CS-1 (2.5'-3')	90	88
880-26165-1 MSD	CS-1 (2.5'-3')	92	89
880-26165-2	CS-2 (2.5'-3')	87	93
880-26165-3	CS-3 (2.5'-3')	90	95
880-26165-4	CS-4 (2.5'-3')	108	110
880-26165-5	CS-5 (2.5'-3')	89	95
880-26165-6	CS-6 (2.5'-3')	82	86
880-26165-7	CS-7 (2.5'-3')	103	98
880-26165-8	CS-8 (2.5'-3')	87	91
880-26165-9	CS-9 (2.5'-3')	94	80
880-26165-10	CS-10 (2.5'-3')	79	82
880-26165-11	CS-11 (2.5'-3')	104	104
880-26165-12	CS-12 (2.5'-3')	103	104
880-26165-13	CS-13 (2.5'-3')	100	98
880-26165-14	CS-14 (2.5'-3')	88	92
880-26165-15	CS-15 (2.5'-3')	89	93
880-26165-16	CS-16 (2.5'-3')	103	101
880-26165-17	CS-17 (2.5'-3')	99	99
880-26165-18	CS-18 (2.5'-3')	84	88
880-26165-19	CS-19 (2.5'-3')	99	92
880-26165-20	CS-20 (2.5'-3')	102	96
880-26165-21	CS-21 (2.5'-3')	103	107
880-26165-21 MS	CS-21 (2.5'-3')	103	99
880-26165-21 MSD	CS-21 (2.5'-3')	85	84
880-26165-22	CS-22 (2.5'-3')	83	94
880-26165-23	CS-23 (2.5'-3')	77	84
880-26165-24	CS-24 (2.5'-3')	99	106
880-26165-25	CS-25 (2.5'-3')	81	91
880-26165-26	CS-26 (2.5'-3')	81	92
880-26165-27	CS-27 (2.5'-3')	79	88
880-26165-28	CS-28 (2.5'-3')	81	89
880-26165-29	CS-29 (2.5'-3')	98	104
880-26165-30	CS-30 (2.5'-3')	78	86
880-26165-31	CS-31 (2.5'-3')	102	108
880-26165-32	CS-32 (2.5'-3')	97	104
880-26165-33	CS-33 (2.5'-3')	84	96
880-26165-34	SW-1 (2.5'-3')	84	96
880-26165-35	SW-2 (2.5'-3')	82	94
880-26165-36	SW-3 (2.5'-3')	102	113
880-26165-37	SW-4 (2.5'-3')	100	112
880-26165-38	SW-5 (2.5'-3')	86	98
880-26165-39	SW-6 (2.5'-3')	103	113
880-26165-40	SW-7 (2.5'-3')	84	95
880-26165-41	SW-8 (2.5'-3')	112	105
880-26165-41 MS	SW-8 (2.5'-3')	119	104
880-26165-41 MSD	SW-8 (2.5'-3')	98	87
880-26165-42	SW-9 (2.5'-3')	82	79
880-26165-43	SW-10 (2.5'-3')	102	97
880-26165-44	SW-11 (2.5'-3')	102	92

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Surrogate Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-26165-45	SW-12 (2.5'-3')	77	76
880-26165-46	SW-13 (2.5'-3')	96	88
880-26165-47	SW-14 (2.5'-3')	92	87
880-26165-48	SW-15 (2.5'-3')	83	82
880-26165-49	SW-16 (2.5'-3')	79	76
880-26165-50	SW-17 (2.5'-3')	82	82
880-26165-51	SW-18 (2.5'-3')	95	91
880-26165-52	SW-19 (2.5'-3')	76	80
880-26165-53	SW-20 (2.5'-3')	90	90
880-26165-54	SW-21 (2.5'-3')	87	84
880-26165-55	SW-22 (2.5'-3')	85	86
880-26165-56	SW-23 (2.5'-3')	83	85
880-26165-57	SW-24 (2.5'-3')	71	76
880-26165-58	SW-25 (2.5'-3')	77	83
880-26165-59	SW-26 (2.5'-3')	77	84
880-26165-60	SW-27 (2.5'-3')	92	95
880-26165-61	SW-28 (2.5'-3')	113	62 S1-
880-26165-61 MS	SW-28 (2.5'-3')	116	97
880-26165-61 MSD	SW-28 (2.5'-3')	116	96
880-26165-62	SW-29 (2.5'-3')	100	100
LCS 880-49171/2-A	Lab Control Sample	105	107
LCS 880-49182/2-A	Lab Control Sample	62 S1-	69 S1-
LCS 880-49183/2-A	Lab Control Sample	114	135 S1+
LCS 880-49215/2-A	Lab Control Sample	145 S1+	137 S1+
LCSD 880-49171/3-A	Lab Control Sample Dup	117	109
LCSD 880-49182/3-A	Lab Control Sample Dup	70	78
LCSD 880-49183/3-A	Lab Control Sample Dup	134 S1+	158 S1+
LCSD 880-49215/3-A	Lab Control Sample Dup	133 S1+	126
MB 880-49171/1-A	Method Blank	144 S1+	143 S1+
MB 880-49182/1-A	Method Blank	130	140 S1+
MB 880-49183/1-A	Method Blank	120	142 S1+
MB 880-49215/1-A	Method Blank	150 S1+	154 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49192/5-A

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:22	03/24/23 06:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:22	03/24/23 06:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:22	03/24/23 06:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 11:22	03/24/23 06:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:22	03/24/23 06:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 11:22	03/24/23 06:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/22/23 11:22	03/24/23 06:00	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/22/23 11:22	03/24/23 06:00	1

Lab Sample ID: LCS 880-49192/1-A

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1011		mg/Kg		101	70 - 130
Toluene	0.100	0.09904		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1097		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2422		mg/Kg		121	70 - 130
o-Xylene	0.100	0.1268		mg/Kg		127	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-49192/2-A

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08464		mg/Kg		85	70 - 130	18	35
Toluene	0.100	0.09054		mg/Kg		91	70 - 130	9	35
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2186		mg/Kg		109	70 - 130	10	35
o-Xylene	0.100	0.1144		mg/Kg		114	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-26165-1 MS

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: CS-1 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49192

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.07995		mg/Kg		80	70 - 130
Toluene	<0.00201	U	0.0998	0.08505		mg/Kg		85	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-26165-1 MS

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: CS-1 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49192

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.09468		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2072		mg/Kg		104	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1061		mg/Kg		106	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-26165-1 MSD

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: CS-1 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49192

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.07931		mg/Kg		80	70 - 130	1	35
Toluene	<0.00201	U	0.0990	0.08058		mg/Kg		81	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0990	0.09423		mg/Kg		95	70 - 130	0	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2060		mg/Kg		104	70 - 130	1	35
o-Xylene	<0.00201	U	0.0990	0.1055		mg/Kg		107	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-49193/5-A

Matrix: Solid

Analysis Batch: 49554

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/26/23 21:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/26/23 21:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/26/23 21:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 11:25	03/26/23 21:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:25	03/26/23 21:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 11:25	03/26/23 21:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	03/22/23 11:25	03/26/23 21:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/22/23 11:25	03/26/23 21:04	1

Lab Sample ID: LCS 880-49193/1-A

Matrix: Solid

Analysis Batch: 49554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1024		mg/Kg		102	70 - 130
Toluene	0.100	0.09969		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1109		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2282		mg/Kg		114	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-49193/1-A

Matrix: Solid

Analysis Batch: 49554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-49193/2-A

Matrix: Solid

Analysis Batch: 49554

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49193

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09130		mg/Kg		91	70 - 130	11	35
Toluene	0.100	0.09004		mg/Kg		90	70 - 130	10	35
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2085		mg/Kg		104	70 - 130	9	35
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-26165-21 MS

Matrix: Solid

Analysis Batch: 49554

Client Sample ID: CS-21 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.1057		mg/Kg		105	70 - 130
Toluene	<0.00199	U	0.100	0.09001		mg/Kg		90	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.1013		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2110		mg/Kg		105	70 - 130
o-Xylene	<0.00199	U	0.100	0.1014		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	128		70 - 130

Lab Sample ID: 880-26165-21 MSD

Matrix: Solid

Analysis Batch: 49554

Client Sample ID: CS-21 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49193

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	0.08521		mg/Kg		86	70 - 130	21	35
Toluene	<0.00199	U	0.0990	0.07477		mg/Kg		76	70 - 130	19	35
Ethylbenzene	<0.00199	U	0.0990	0.08135		mg/Kg		82	70 - 130	22	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1687		mg/Kg		85	70 - 130	22	35
o-Xylene	<0.00199	U	0.0990	0.08169		mg/Kg		83	70 - 130	22	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-26165-21 MSD

Matrix: Solid

Analysis Batch: 49554

Client Sample ID: CS-21 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49193

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: MB 880-49196/5-A

Matrix: Solid

Analysis Batch: 49543

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49196

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 01:54	1	
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 01:54	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 01:54	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 11:27	03/27/23 01:54	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 11:27	03/27/23 01:54	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 11:27	03/27/23 01:54	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				03/22/23 11:27	03/27/23 01:54	1	
1,4-Difluorobenzene (Surr)	100		70 - 130				03/22/23 11:27	03/27/23 01:54	1	

Lab Sample ID: LCS 880-49196/1-A

Matrix: Solid

Analysis Batch: 49543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49196

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.1006		mg/Kg		101	70 - 130			
Toluene	0.100	0.09839		mg/Kg		98	70 - 130			
Ethylbenzene	0.100	0.09014		mg/Kg		90	70 - 130			
m-Xylene & p-Xylene	0.200	0.1793		mg/Kg		90	70 - 130			
o-Xylene	0.100	0.09101		mg/Kg		91	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	100		70 - 130							
1,4-Difluorobenzene (Surr)	111		70 - 130							

Lab Sample ID: LCSD 880-49196/2-A

Matrix: Solid

Analysis Batch: 49543

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49196

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09301		mg/Kg		93	70 - 130	8	35	
Toluene	0.100	0.09085		mg/Kg		91	70 - 130	8	35	
Ethylbenzene	0.100	0.08368		mg/Kg		84	70 - 130	7	35	
m-Xylene & p-Xylene	0.200	0.1659		mg/Kg		83	70 - 130	8	35	
o-Xylene	0.100	0.08467		mg/Kg		85	70 - 130	7	35	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	97		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-49196/2-A

Matrix: Solid

Analysis Batch: 49543

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49196

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-26165-41 MS

Matrix: Solid

Analysis Batch: 49543

Client Sample ID: SW-8 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49196

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.0998	0.08439		mg/Kg		85	70 - 130
Toluene	<0.00201	U	0.0998	0.08306		mg/Kg		82	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.07579		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1499		mg/Kg		75	70 - 130
o-Xylene	<0.00201	U	0.0998	0.07590		mg/Kg		76	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-26165-41 MSD

Matrix: Solid

Analysis Batch: 49543

Client Sample ID: SW-8 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49196

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.08174		mg/Kg		83	70 - 130	3	35
Toluene	<0.00201	U	0.0990	0.08041		mg/Kg		80	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0990	0.07437		mg/Kg		75	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1468		mg/Kg		74	70 - 130	2	35
o-Xylene	<0.00201	U	0.0990	0.07385		mg/Kg		75	70 - 130	3	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-49217/5-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49217

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:25	03/25/23 14:44	1	
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:25	03/25/23 14:44	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:25	03/25/23 14:44	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 13:25	03/25/23 14:44	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:25	03/25/23 14:44	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 13:25	03/25/23 14:44	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
4-Bromofluorobenzene (Surr)	84		70 - 130	03/22/23 13:25	03/25/23 14:44	1				
1,4-Difluorobenzene (Surr)	93		70 - 130	03/22/23 13:25	03/25/23 14:44	1				

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-49291/5-A

Matrix: Solid

Analysis Batch: 49342

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/23 08:54	03/23/23 19:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/23/23 08:54	03/23/23 19:34	1
1,4-Difluorobenzene (Surr)	76		70 - 130	03/23/23 08:54	03/23/23 19:34	1

Lab Sample ID: LCS 880-49291/1-A

Matrix: Solid

Analysis Batch: 49342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1140		mg/Kg		114	70 - 130
Toluene	0.100	0.1015		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1191		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2517		mg/Kg		126	70 - 130
o-Xylene	0.100	0.1206		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130

Lab Sample ID: LCSD 880-49291/2-A

Matrix: Solid

Analysis Batch: 49342

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49291

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1232		mg/Kg		123	70 - 130	8	35
Toluene	0.100	0.1003		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.1188		mg/Kg		119	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2526		mg/Kg		126	70 - 130	0	35
o-Xylene	0.100	0.1215		mg/Kg		121	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-4309-A-1-D MS

Matrix: Solid

Analysis Batch: 49342

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08291		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.100	0.07383		mg/Kg		74	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: 890-4309-A-1-D MS

Matrix: Solid

Analysis Batch: 49342

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07977		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1666		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U	0.100	0.08092		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-4309-A-1-E MSD

Matrix: Solid

Analysis Batch: 49342

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49291

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1086		mg/Kg		110	70 - 130	27	35
Toluene	<0.00200	U	0.0990	0.09435		mg/Kg		95	70 - 130	24	35
Ethylbenzene	<0.00200	U	0.0990	0.09886		mg/Kg		100	70 - 130	21	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2056		mg/Kg		104	70 - 130	21	35
o-Xylene	<0.00200	U	0.0990	0.09713		mg/Kg		98	70 - 130	18	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-49328/5-A

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:13	03/23/23 19:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:13	03/23/23 19:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:13	03/23/23 19:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/23 13:13	03/23/23 19:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:13	03/23/23 19:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/23 13:13	03/23/23 19:27	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	03/23/23 13:13	03/23/23 19:27	1
1,4-Difluorobenzene (Surr)	79		70 - 130	03/23/23 13:13	03/23/23 19:27	1

Lab Sample ID: MB 880-49394/5-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 01:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 01:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 01:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/24/23 10:17	03/26/23 01:20	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-49394/5-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:17	03/26/23 01:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/23 10:17	03/26/23 01:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	03/24/23 10:17	03/26/23 01:20	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/24/23 10:17	03/26/23 01:20	1

Lab Sample ID: LCS 880-49394/1-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49394

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09451		mg/Kg		95	70 - 130
Toluene	0.100	0.08755		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08732		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1898		mg/Kg		95	70 - 130
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-49394/2-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49394

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09183		mg/Kg		92	70 - 130	3	35
Toluene	0.100	0.09252		mg/Kg		93	70 - 130	6	35
Ethylbenzene	0.100	0.09826		mg/Kg		98	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2158		mg/Kg		108	70 - 130	13	35
o-Xylene	0.100	0.1229		mg/Kg		123	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-4308-A-41-F MS

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49394

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.07314		mg/Kg		73	70 - 130
Toluene	<0.00200	U	0.0998	0.07562		mg/Kg		76	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.08006		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1687		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1037		mg/Kg		104	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: 890-4308-A-41-F MS

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49394

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-4308-A-41-G MSD

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49394

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.07695		mg/Kg		78	70 - 130	5	35
Toluene	<0.00200	U	0.0990	0.07585		mg/Kg		77	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0990	0.08016		mg/Kg		81	70 - 130	0	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1695		mg/Kg		86	70 - 130	1	35
o-Xylene	<0.00200	U	0.0990	0.09936		mg/Kg		100	70 - 130	4	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-49396/5-A

Matrix: Solid

Analysis Batch: 49543

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:36	03/26/23 14:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:36	03/26/23 14:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:36	03/26/23 14:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/24/23 10:36	03/26/23 14:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:36	03/26/23 14:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/23 10:36	03/26/23 14:17	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	88		70 - 130	03/24/23 10:36	03/26/23 14:17	1			
1,4-Difluorobenzene (Surr)	101		70 - 130	03/24/23 10:36	03/26/23 14:17	1			

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

Lab Sample ID: MB 880-49171/1-A

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 07:50	03/22/23 08:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 07:50	03/22/23 08:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 07:50	03/22/23 08:00	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-49171/1-A

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49171

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	144	S1+	70 - 130	03/22/23 07:50	03/22/23 08:00	1				
o-Terphenyl	143	S1+	70 - 130	03/22/23 07:50	03/22/23 08:00	1				

Lab Sample ID: LCS 880-49171/2-A

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49171

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1120		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1603	*+	mg/Kg		160	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	107		70 - 130								

Lab Sample ID: LCSD 880-49171/3-A

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49171

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	956.3		mg/Kg		96	70 - 130	16	20	
Diesel Range Organics (Over C10-C28)			1000	1395	*+	mg/Kg		139	70 - 130	14	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	117		70 - 130									
o-Terphenyl	109		70 - 130									

Lab Sample ID: 880-26165-1 MS

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: CS-1 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49171

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	886.9		mg/Kg		89	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U *+	998	833.4		mg/Kg		84	70 - 130			

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	90		70 - 130									
o-Terphenyl	88		70 - 130									

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-26165-1 MSD

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: CS-1 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49171

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	997	864.8		mg/Kg		87	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U *	997	841.8		mg/Kg		84	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	89		70 - 130								

Lab Sample ID: MB 880-49182/1-A

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/22/23 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/22/23 19:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:37	03/22/23 19:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				03/22/23 10:37	03/22/23 19:33	1
o-Terphenyl	140	S1+	70 - 130				03/22/23 10:37	03/22/23 19:33	1

Lab Sample ID: LCS 880-49182/2-A

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	903.1		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1053		mg/Kg		105	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	62	S1-	70 - 130						
o-Terphenyl	69	S1-	70 - 130						

Lab Sample ID: LCSD 880-49182/3-A

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49182

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	952.5		mg/Kg		95	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1031		mg/Kg		103	70 - 130	2	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-49182/3-A

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49182

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 880-26165-41 MS

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: SW-8 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49182

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1085		mg/Kg		105	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1039		mg/Kg		104	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	119		70 - 130							
o-Terphenyl	104		70 - 130							

Lab Sample ID: 880-26165-41 MSD

Matrix: Solid

Analysis Batch: 49153

Client Sample ID: SW-8 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49182

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	964.8		mg/Kg		93	70 - 130	12	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	888.8		mg/Kg		89	70 - 130	16	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	98		70 - 130									
o-Terphenyl	87		70 - 130									

Lab Sample ID: MB 880-49183/1-A

Matrix: Solid

Analysis Batch: 49155

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49183

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/22/23 19:33	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/22/23 19:33	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 10:42	03/22/23 19:33	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
1-Chlorooctane	120		70 - 130				03/22/23 10:42	03/22/23 19:33	1		
o-Terphenyl	142	S1+	70 - 130				03/22/23 10:42	03/22/23 19:33	1		

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-49183/2-A

Matrix: Solid

Analysis Batch: 49155

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49183

Analyte			Spike	LCS	LCS			%Rec		
			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	943.8		mg/Kg		94	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	911.9		mg/Kg		91	70 - 130	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	114		70 - 130							
o-Terphenyl	135	S1+	70 - 130							

Lab Sample ID: LCSD 880-49183/3-A

Matrix: Solid

Analysis Batch: 49155

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49183

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1135		mg/Kg		113	18	20
Diesel Range Organics (Over C10-C28)			1000	1073		mg/Kg		107	16	20
Surrogate	LCSD	LCSD	Limits							
	%Recovery	Qualifier								
1-Chlorooctane	134	S1+	70 - 130							
o-Terphenyl	158	S1+	70 - 130							

Lab Sample ID: 880-26165-21 MS

Matrix: Solid

Analysis Batch: 49155

Client Sample ID: CS-21 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49183

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	998	1094		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1100		mg/Kg		109	70 - 130		

Lab Sample ID: 880-26165-21 MSD

Matrix: Solid

Analysis Batch: 49155

Client Sample ID: CS-21 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49183

	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	<50.0	U F2	998	825.2	F2	mg/Kg		79	70 - 130	28	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	922.6		mg/Kg		91	70 - 130	17	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	85		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-26165-21 MSD

Matrix: Solid

Analysis Batch: 49155

Client Sample ID: CS-21 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49183

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

Lab Sample ID: MB 880-49215/1-A

Matrix: Solid

Analysis Batch: 49160

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49215

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 19:17	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 19:17	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 19:17	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	150	S1+	70 - 130				03/22/23 13:15	03/22/23 19:17	1	
<i>o</i> -Terphenyl	154	S1+	70 - 130				03/22/23 13:15	03/22/23 19:17	1	

Lab Sample ID: LCS 880-49215/2-A

Matrix: Solid

Analysis Batch: 49160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49215

		Spike	LCS	LCS				%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	874.1		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	964.5		mg/Kg		96	70 - 130		
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	145	S1+	70 - 130							
<i>o</i> -Terphenyl	137	S1+	70 - 130							

Lab Sample ID: LCSD 880-49215/3-A

Matrix: Solid

Analysis Batch: 49160

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49215

		Spike	LCSD	LCSD				%Rec		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10		1000	817.7		mg/Kg		82	70 - 130	7	20	
Diesel Range Organics (Over C10-C28)		1000	834.5		mg/Kg		83	70 - 130	14	20	
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	133	S1+	70 - 130								
<i>o</i> -Terphenyl	126		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-26165-61 MS

Matrix: Solid

Analysis Batch: 49160

Client Sample ID: SW-28 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1080		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	869.7		mg/Kg		82	70 - 130		
	MS %Recovery	MS Qualifier									
Surrogate											
1-Chlorooctane	116										
o-Terphenyl	97										

Lab Sample ID: 880-26165-61 MSD

Matrix: Solid

Analysis Batch: 49160

Client Sample ID: SW-28 (2.5'-3')

Prep Type: Total/NA

Prep Batch: 49215

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1088		mg/Kg		107	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	861.7		mg/Kg		81	70 - 130	1	20
	MSD %Recovery	MSD Qualifier									
Surrogate											
1-Chlorooctane	116										
o-Terphenyl	96										

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49168/1-A

Matrix: Solid

Analysis Batch: 49408

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			03/22/23 23:53	1

Lab Sample ID: LCS 880-49168/2-A

Matrix: Solid

Analysis Batch: 49408

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	263.4		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-49168/3-A

Matrix: Solid

Analysis Batch: 49408

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	259.7		mg/Kg		104	90 - 110	1	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-26165-1 MS

Matrix: Solid

Analysis Batch: 49408

Client Sample ID: CS-1 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20.9	F1	253	311.1	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 880-26165-1 MSD

Matrix: Solid

Analysis Batch: 49408

Client Sample ID: CS-1 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.9	F1	253	305.8	F1	mg/Kg		113	90 - 110	2	20

Lab Sample ID: 880-26165-11 MS

Matrix: Solid

Analysis Batch: 49408

Client Sample ID: CS-11 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	88.9		251	361.0		mg/Kg		108	90 - 110		

Lab Sample ID: 880-26165-11 MSD

Matrix: Solid

Analysis Batch: 49408

Client Sample ID: CS-11 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	88.9		251	355.4		mg/Kg		106	90 - 110	2	20

Lab Sample ID: MB 880-49169/1-A

Matrix: Solid

Analysis Batch: 49417

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			03/23/23 02:29	1

Lab Sample ID: LCS 880-49169/2-A

Matrix: Solid

Analysis Batch: 49417

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	262.2		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-49169/3-A

Matrix: Solid

Analysis Batch: 49417

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	262.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-26165-21 MS

Matrix: Solid

Analysis Batch: 49417

Client Sample ID: CS-21 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	30.6		249	302.0		mg/Kg		109	90 - 110		

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-26165-21 MSD

Matrix: Solid

Analysis Batch: 49417

Client Sample ID: CS-21 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	30.6		249	302.7		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-26165-31 MS

Matrix: Solid

Analysis Batch: 49417

Client Sample ID: CS-31 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	12.1	F1	250	287.8	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-26165-31 MSD

Matrix: Solid

Analysis Batch: 49417

Client Sample ID: CS-31 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.1	F1	250	288.8	F1	mg/Kg		111	90 - 110	0	20

Lab Sample ID: MB 880-49170/1-A

Matrix: Solid

Analysis Batch: 49425

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			03/23/23 12:12	1

Lab Sample ID: LCS 880-49170/2-A

Matrix: Solid

Analysis Batch: 49425

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	255.3		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-49170/3-A

Matrix: Solid

Analysis Batch: 49425

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	255.5		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-26165-41 MS

Matrix: Solid

Analysis Batch: 49425

Client Sample ID: SW-8 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	296		250	548.4		mg/Kg		101	90 - 110		

Lab Sample ID: 880-26165-41 MSD

Matrix: Solid

Analysis Batch: 49425

Client Sample ID: SW-8 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	296		250	563.3		mg/Kg		107	90 - 110	3	20

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-26165-51 MS

Matrix: Solid

Analysis Batch: 49425

Client Sample ID: SW-18 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	21.4		253	277.9		mg/Kg		102	90 - 110

Lab Sample ID: 880-26165-51 MSD

Matrix: Solid

Analysis Batch: 49425

Client Sample ID: SW-18 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	21.4		253	297.4		mg/Kg		109	90 - 110	7	20

Lab Sample ID: MB 880-49461/1-A

Matrix: Solid

Analysis Batch: 49463

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			03/24/23 18:22	1

Lab Sample ID: LCS 880-49461/2-A

Matrix: Solid

Analysis Batch: 49463

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265.4		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-49461/3-A

Matrix: Solid

Analysis Batch: 49463

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	264.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-26165-61 MS

Matrix: Solid

Analysis Batch: 49463

Client Sample ID: SW-28 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	75.2		251	330.3		mg/Kg		102	90 - 110

Lab Sample ID: 880-26165-61 MSD

Matrix: Solid

Analysis Batch: 49463

Client Sample ID: SW-28 (2.5'-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	75.2		251	332.2		mg/Kg		102	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 49192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-1	CS-1 (2.5'-3')	Total/NA	Solid	5035	
880-26165-2	CS-2 (2.5'-3')	Total/NA	Solid	5035	
880-26165-3	CS-3 (2.5'-3')	Total/NA	Solid	5035	
880-26165-4	CS-4 (2.5'-3')	Total/NA	Solid	5035	
880-26165-5	CS-5 (2.5'-3')	Total/NA	Solid	5035	
880-26165-6	CS-6 (2.5'-3')	Total/NA	Solid	5035	
880-26165-7	CS-7 (2.5'-3')	Total/NA	Solid	5035	
880-26165-8	CS-8 (2.5'-3')	Total/NA	Solid	5035	
880-26165-9	CS-9 (2.5'-3')	Total/NA	Solid	5035	
880-26165-10	CS-10 (2.5'-3')	Total/NA	Solid	5035	
MB 880-49192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49192/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26165-1 MS	CS-1 (2.5'-3')	Total/NA	Solid	5035	
880-26165-1 MSD	CS-1 (2.5'-3')	Total/NA	Solid	5035	

Prep Batch: 49193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-21	CS-21 (2.5'-3')	Total/NA	Solid	5035	
880-26165-22	CS-22 (2.5'-3')	Total/NA	Solid	5035	
880-26165-23	CS-23 (2.5'-3')	Total/NA	Solid	5035	
880-26165-24	CS-24 (2.5'-3')	Total/NA	Solid	5035	
880-26165-25	CS-25 (2.5'-3')	Total/NA	Solid	5035	
880-26165-26	CS-26 (2.5'-3')	Total/NA	Solid	5035	
880-26165-27	CS-27 (2.5'-3')	Total/NA	Solid	5035	
880-26165-28	CS-28 (2.5'-3')	Total/NA	Solid	5035	
880-26165-29	CS-29 (2.5'-3')	Total/NA	Solid	5035	
880-26165-30	CS-30 (2.5'-3')	Total/NA	Solid	5035	
880-26165-31	CS-31 (2.5'-3')	Total/NA	Solid	5035	
880-26165-32	CS-32 (2.5'-3')	Total/NA	Solid	5035	
880-26165-33	CS-33 (2.5'-3')	Total/NA	Solid	5035	
880-26165-34	SW-1 (2.5'-3')	Total/NA	Solid	5035	
880-26165-35	SW-2 (2.5'-3')	Total/NA	Solid	5035	
880-26165-36	SW-3 (2.5'-3')	Total/NA	Solid	5035	
880-26165-37	SW-4 (2.5'-3')	Total/NA	Solid	5035	
880-26165-38	SW-5 (2.5'-3')	Total/NA	Solid	5035	
880-26165-39	SW-6 (2.5'-3')	Total/NA	Solid	5035	
880-26165-40	SW-7(2.5'-3')	Total/NA	Solid	5035	
MB 880-49193/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49193/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49193/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26165-21 MS	CS-21 (2.5'-3')	Total/NA	Solid	5035	
880-26165-21 MSD	CS-21 (2.5'-3')	Total/NA	Solid	5035	

Prep Batch: 49196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-41	SW-8 (2.5'-3')	Total/NA	Solid	5035	
880-26165-42	SW-9 (2.5'-3')	Total/NA	Solid	5035	
880-26165-43	SW-10 (2.5'-3')	Total/NA	Solid	5035	
880-26165-44	SW-11 (2.5'-3')	Total/NA	Solid	5035	
880-26165-45	SW-12 (2.5'-3')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC VOA (Continued)

Prep Batch: 49196 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-46	SW-13 (2.5'-3')	Total/NA	Solid	5035	
880-26165-47	SW-14 (2.5'-3')	Total/NA	Solid	5035	
880-26165-48	SW-15 (2.5'-3')	Total/NA	Solid	5035	
880-26165-49	SW-16 (2.5'-3')	Total/NA	Solid	5035	
880-26165-50	SW-17 (2.5'-3')	Total/NA	Solid	5035	
880-26165-51	SW-18 (2.5'-3')	Total/NA	Solid	5035	
880-26165-52	SW-19 (2.5'-3')	Total/NA	Solid	5035	
880-26165-53	SW-20 (2.5'-3')	Total/NA	Solid	5035	
880-26165-54	SW-21 (2.5'-3')	Total/NA	Solid	5035	
880-26165-55	SW-22 (2.5'-3')	Total/NA	Solid	5035	
880-26165-56	SW-23 (2.5'-3')	Total/NA	Solid	5035	
880-26165-57	SW-24 (2.5'-3')	Total/NA	Solid	5035	
880-26165-58	SW-25 (2.5'-3')	Total/NA	Solid	5035	
880-26165-59	SW-26 (2.5'-3')	Total/NA	Solid	5035	
880-26165-60	SW-27 (2.5'-3')	Total/NA	Solid	5035	
MB 880-49196/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49196/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49196/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26165-41 MS	SW-8 (2.5'-3')	Total/NA	Solid	5035	
880-26165-41 MSD	SW-8 (2.5'-3')	Total/NA	Solid	5035	

Prep Batch: 49217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49217/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-61	SW-28 (2.5'-3')	Total/NA	Solid	5035	
880-26165-62	SW-29 (2.5'-3')	Total/NA	Solid	5035	
MB 880-49291/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49291/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49291/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4309-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4309-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 49328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49328/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 49342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-61	SW-28 (2.5'-3')	Total/NA	Solid	8021B	49291
880-26165-62	SW-29 (2.5'-3')	Total/NA	Solid	8021B	49291
MB 880-49291/5-A	Method Blank	Total/NA	Solid	8021B	49291
LCS 880-49291/1-A	Lab Control Sample	Total/NA	Solid	8021B	49291
LCSD 880-49291/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49291
890-4309-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	49291
890-4309-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49291

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 49344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-1	CS-1 (2.5'-3')	Total/NA	Solid	8021B	49192
880-26165-2	CS-2 (2.5'-3')	Total/NA	Solid	8021B	49192
880-26165-3	CS-3 (2.5'-3')	Total/NA	Solid	8021B	49192
880-26165-4	CS-4 (2.5'-3')	Total/NA	Solid	8021B	49192
880-26165-5	CS-5 (2.5'-3')	Total/NA	Solid	8021B	49192
880-26165-6	CS-6 (2.5'-3')	Total/NA	Solid	8021B	49192
880-26165-7	CS-7 (2.5'-3')	Total/NA	Solid	8021B	49192
880-26165-8	CS-8 (2.5'-3')	Total/NA	Solid	8021B	49192
880-26165-9	CS-9 (2.5'-3')	Total/NA	Solid	8021B	49192
880-26165-10	CS-10 (2.5'-3')	Total/NA	Solid	8021B	49192
MB 880-49192/5-A	Method Blank	Total/NA	Solid	8021B	49192
MB 880-49328/5-A	Method Blank	Total/NA	Solid	8021B	49328
LCS 880-49192/1-A	Lab Control Sample	Total/NA	Solid	8021B	49192
LCSD 880-49192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49192
880-26165-1 MS	CS-1 (2.5'-3')	Total/NA	Solid	8021B	49192
880-26165-1 MSD	CS-1 (2.5'-3')	Total/NA	Solid	8021B	49192

Analysis Batch: 49380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-1	CS-1 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-2	CS-2 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-3	CS-3 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-4	CS-4 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-5	CS-5 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-6	CS-6 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-7	CS-7 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-8	CS-8 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-9	CS-9 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-10	CS-10 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-11	CS-11 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-12	CS-12 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-13	CS-13 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-14	CS-14 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-15	CS-15 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-16	CS-16 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-17	CS-17 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-18	CS-18 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-19	CS-19 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-20	CS-20 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-21	CS-21 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-22	CS-22 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-23	CS-23 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-24	CS-24 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-25	CS-25 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-26	CS-26 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-27	CS-27 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-28	CS-28 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-29	CS-29 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-30	CS-30 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-31	CS-31 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-32	CS-32 (2.5'-3')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC VOA (Continued)

Analysis Batch: 49380 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-33	CS-33 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-34	SW-1 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-35	SW-2 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-36	SW-3 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-37	SW-4 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-38	SW-5 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-39	SW-6 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-40	SW-7(2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-41	SW-8 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-42	SW-9 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-43	SW-10 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-44	SW-11 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-45	SW-12 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-46	SW-13 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-47	SW-14 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-48	SW-15 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-49	SW-16 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-50	SW-17 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-51	SW-18 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-52	SW-19 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-53	SW-20 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-54	SW-21 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-55	SW-22 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-56	SW-23 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-57	SW-24 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-58	SW-25 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-59	SW-26 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-60	SW-27 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-61	SW-28 (2.5'-3')	Total/NA	Solid	Total BTEX	
880-26165-62	SW-29 (2.5'-3')	Total/NA	Solid	Total BTEX	

Prep Batch: 49394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-11	CS-11 (2.5'-3')	Total/NA	Solid	5035	
880-26165-12	CS-12 (2.5'-3')	Total/NA	Solid	5035	
880-26165-13	CS-13 (2.5'-3')	Total/NA	Solid	5035	
880-26165-14	CS-14 (2.5'-3')	Total/NA	Solid	5035	
880-26165-15	CS-15 (2.5'-3')	Total/NA	Solid	5035	
880-26165-16	CS-16 (2.5'-3')	Total/NA	Solid	5035	
880-26165-17	CS-17 (2.5'-3')	Total/NA	Solid	5035	
880-26165-18	CS-18 (2.5'-3')	Total/NA	Solid	5035	
880-26165-19	CS-19 (2.5'-3')	Total/NA	Solid	5035	
880-26165-20	CS-20 (2.5'-3')	Total/NA	Solid	5035	
MB 880-49394/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49394/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49394/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4308-A-41-F MS	Matrix Spike	Total/NA	Solid	5035	
890-4308-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 49396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49396/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 49405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-11	CS-11 (2.5'-3')	Total/NA	Solid	8021B	49394
880-26165-12	CS-12 (2.5'-3')	Total/NA	Solid	8021B	49394
880-26165-13	CS-13 (2.5'-3')	Total/NA	Solid	8021B	49394
880-26165-14	CS-14 (2.5'-3')	Total/NA	Solid	8021B	49394
880-26165-15	CS-15 (2.5'-3')	Total/NA	Solid	8021B	49394
880-26165-16	CS-16 (2.5'-3')	Total/NA	Solid	8021B	49394
880-26165-17	CS-17 (2.5'-3')	Total/NA	Solid	8021B	49394
880-26165-18	CS-18 (2.5'-3')	Total/NA	Solid	8021B	49394
880-26165-19	CS-19 (2.5'-3')	Total/NA	Solid	8021B	49394
880-26165-20	CS-20 (2.5'-3')	Total/NA	Solid	8021B	49394
MB 880-49217/5-A	Method Blank	Total/NA	Solid	8021B	49217
MB 880-49394/5-A	Method Blank	Total/NA	Solid	8021B	49394
LCS 880-49394/1-A	Lab Control Sample	Total/NA	Solid	8021B	49394
LCSD 880-49394/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49394
890-4308-A-41-F MS	Matrix Spike	Total/NA	Solid	8021B	49394
890-4308-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49394

Analysis Batch: 49543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-41	SW-8 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-42	SW-9 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-43	SW-10 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-44	SW-11 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-45	SW-12 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-46	SW-13 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-47	SW-14 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-48	SW-15 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-49	SW-16 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-50	SW-17 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-51	SW-18 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-52	SW-19 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-53	SW-20 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-54	SW-21 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-55	SW-22 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-56	SW-23 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-57	SW-24 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-58	SW-25 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-59	SW-26 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-60	SW-27 (2.5'-3')	Total/NA	Solid	8021B	49196
MB 880-49196/5-A	Method Blank	Total/NA	Solid	8021B	49196
MB 880-49396/5-A	Method Blank	Total/NA	Solid	8021B	49396
LCS 880-49196/1-A	Lab Control Sample	Total/NA	Solid	8021B	49196
LCSD 880-49196/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49196
880-26165-41 MS	SW-8 (2.5'-3')	Total/NA	Solid	8021B	49196
880-26165-41 MSD	SW-8 (2.5'-3')	Total/NA	Solid	8021B	49196

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 49554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-21	CS-21 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-22	CS-22 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-23	CS-23 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-24	CS-24 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-25	CS-25 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-26	CS-26 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-27	CS-27 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-28	CS-28 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-29	CS-29 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-30	CS-30 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-31	CS-31 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-32	CS-32 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-33	CS-33 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-34	SW-1 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-35	SW-2 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-36	SW-3 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-37	SW-4 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-38	SW-5 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-39	SW-6 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-40	SW-7(2.5'-3')	Total/NA	Solid	8021B	49193
MB 880-49193/5-A	Method Blank	Total/NA	Solid	8021B	49193
LCS 880-49193/1-A	Lab Control Sample	Total/NA	Solid	8021B	49193
LCSD 880-49193/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49193
880-26165-21 MS	CS-21 (2.5'-3')	Total/NA	Solid	8021B	49193
880-26165-21 MSD	CS-21 (2.5'-3')	Total/NA	Solid	8021B	49193

GC Semi VOA

Analysis Batch: 49153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-1	CS-1 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-2	CS-2 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-3	CS-3 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-4	CS-4 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-5	CS-5 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-6	CS-6 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-7	CS-7 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-8	CS-8 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-9	CS-9 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-10	CS-10 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-11	CS-11 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-12	CS-12 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-13	CS-13 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-14	CS-14 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-15	CS-15 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-16	CS-16 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-17	CS-17 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-18	CS-18 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-19	CS-19 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-20	CS-20 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-41	SW-8 (2.5'-3')	Total/NA	Solid	8015B NM	49182

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 49153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-42	SW-9 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-43	SW-10 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-44	SW-11 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-45	SW-12 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-46	SW-13 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-47	SW-14 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-48	SW-15 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-49	SW-16 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-50	SW-17 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-51	SW-18 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-52	SW-19 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-53	SW-20 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-54	SW-21 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-55	SW-22 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-56	SW-23 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-57	SW-24 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-58	SW-25 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-59	SW-26 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-60	SW-27 (2.5'-3')	Total/NA	Solid	8015B NM	49182
MB 880-49171/1-A	Method Blank	Total/NA	Solid	8015B NM	49171
MB 880-49182/1-A	Method Blank	Total/NA	Solid	8015B NM	49182
LCS 880-49171/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49171
LCS 880-49182/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49182
LCSD 880-49171/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49171
LCSD 880-49182/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49182
880-26165-1 MS	CS-1 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-1 MSD	CS-1 (2.5'-3')	Total/NA	Solid	8015B NM	49171
880-26165-41 MS	SW-8 (2.5'-3')	Total/NA	Solid	8015B NM	49182
880-26165-41 MSD	SW-8 (2.5'-3')	Total/NA	Solid	8015B NM	49182

Analysis Batch: 49155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-21	CS-21 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-22	CS-22 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-23	CS-23 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-24	CS-24 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-25	CS-25 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-26	CS-26 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-27	CS-27 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-28	CS-28 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-29	CS-29 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-30	CS-30 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-31	CS-31 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-32	CS-32 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-33	CS-33 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-34	SW-1 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-35	SW-2 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-36	SW-3 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-37	SW-4 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-38	SW-5 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-39	SW-6 (2.5'-3')	Total/NA	Solid	8015B NM	49183

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 49155 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-40	SW-7(2.5'-3')	Total/NA	Solid	8015B NM	49183
MB 880-49183/1-A	Method Blank	Total/NA	Solid	8015B NM	49183
LCS 880-49183/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49183
LCSD 880-49183/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49183
880-26165-21 MS	CS-21 (2.5'-3')	Total/NA	Solid	8015B NM	49183
880-26165-21 MSD	CS-21 (2.5'-3')	Total/NA	Solid	8015B NM	49183

Analysis Batch: 49160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-61	SW-28 (2.5'-3')	Total/NA	Solid	8015B NM	49215
880-26165-62	SW-29 (2.5'-3')	Total/NA	Solid	8015B NM	49215
MB 880-49215/1-A	Method Blank	Total/NA	Solid	8015B NM	49215
LCS 880-49215/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49215
LCSD 880-49215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49215
880-26165-61 MS	SW-28 (2.5'-3')	Total/NA	Solid	8015B NM	49215
880-26165-61 MSD	SW-28 (2.5'-3')	Total/NA	Solid	8015B NM	49215

Prep Batch: 49171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-1	CS-1 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-2	CS-2 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-3	CS-3 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-4	CS-4 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-5	CS-5 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-6	CS-6 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-7	CS-7 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-8	CS-8 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-9	CS-9 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-10	CS-10 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-11	CS-11 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-12	CS-12 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-13	CS-13 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-14	CS-14 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-15	CS-15 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-16	CS-16 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-17	CS-17 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-18	CS-18 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-19	CS-19 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-20	CS-20 (2.5'-3')	Total/NA	Solid	8015NM Prep	
MB 880-49171/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49171/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49171/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26165-1 MS	CS-1 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-1 MSD	CS-1 (2.5'-3')	Total/NA	Solid	8015NM Prep	

Prep Batch: 49182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-41	SW-8 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-42	SW-9 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-43	SW-10 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-44	SW-11 (2.5'-3')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Prep Batch: 49182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-45	SW-12 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-46	SW-13 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-47	SW-14 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-48	SW-15 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-49	SW-16 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-50	SW-17 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-51	SW-18 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-52	SW-19 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-53	SW-20 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-54	SW-21 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-55	SW-22 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-56	SW-23 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-57	SW-24 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-58	SW-25 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-59	SW-26 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-60	SW-27 (2.5'-3')	Total/NA	Solid	8015NM Prep	
MB 880-49182/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49182/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49182/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26165-41 MS	SW-8 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-41 MSD	SW-8 (2.5'-3')	Total/NA	Solid	8015NM Prep	

Prep Batch: 49183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-21	CS-21 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-22	CS-22 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-23	CS-23 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-24	CS-24 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-25	CS-25 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-26	CS-26 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-27	CS-27 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-28	CS-28 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-29	CS-29 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-30	CS-30 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-31	CS-31 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-32	CS-32 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-33	CS-33 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-34	SW-1 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-35	SW-2 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-36	SW-3 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-37	SW-4 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-38	SW-5 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-39	SW-6 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-40	SW-7 (2.5'-3')	Total/NA	Solid	8015NM Prep	
MB 880-49183/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49183/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49183/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26165-21 MS	CS-21 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-21 MSD	CS-21 (2.5'-3')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC Semi VOA

Prep Batch: 49215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-61	SW-28 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-62	SW-29 (2.5'-3')	Total/NA	Solid	8015NM Prep	
MB 880-49215/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49215/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26165-61 MS	SW-28 (2.5'-3')	Total/NA	Solid	8015NM Prep	
880-26165-61 MSD	SW-28 (2.5'-3')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-1	CS-1 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-2	CS-2 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-3	CS-3 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-4	CS-4 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-5	CS-5 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-6	CS-6 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-7	CS-7 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-8	CS-8 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-9	CS-9 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-10	CS-10 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-11	CS-11 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-12	CS-12 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-13	CS-13 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-14	CS-14 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-15	CS-15 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-16	CS-16 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-17	CS-17 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-18	CS-18 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-19	CS-19 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-20	CS-20 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-21	CS-21 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-22	CS-22 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-23	CS-23 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-24	CS-24 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-25	CS-25 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-26	CS-26 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-27	CS-27 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-28	CS-28 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-29	CS-29 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-30	CS-30 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-31	CS-31 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-32	CS-32 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-33	CS-33 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-34	SW-1 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-35	SW-2 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-36	SW-3 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-37	SW-4 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-38	SW-5 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-39	SW-6 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-40	SW-7(2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-41	SW-8 (2.5'-3')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 49314 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-42	SW-9 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-43	SW-10 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-44	SW-11 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-45	SW-12 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-46	SW-13 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-47	SW-14 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-48	SW-15 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-49	SW-16 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-50	SW-17 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-51	SW-18 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-52	SW-19 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-53	SW-20 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-54	SW-21 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-55	SW-22 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-56	SW-23 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-57	SW-24 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-58	SW-25 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-59	SW-26 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-60	SW-27 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-61	SW-28 (2.5'-3')	Total/NA	Solid	8015 NM	
880-26165-62	SW-29 (2.5'-3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-1	CS-1 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-2	CS-2 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-3	CS-3 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-4	CS-4 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-5	CS-5 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-6	CS-6 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-7	CS-7 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-8	CS-8 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-9	CS-9 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-10	CS-10 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-11	CS-11 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-12	CS-12 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-13	CS-13 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-14	CS-14 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-15	CS-15 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-16	CS-16 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-17	CS-17 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-18	CS-18 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-19	CS-19 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-20	CS-20 (2.5'-3')	Soluble	Solid	DI Leach	
MB 880-49168/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49168/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49168/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26165-1 MS	CS-1 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-1 MSD	CS-1 (2.5'-3')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 49168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-11 MS	CS-11 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-11 MSD	CS-11 (2.5'-3')	Soluble	Solid	DI Leach	

Leach Batch: 49169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-21	CS-21 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-22	CS-22 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-23	CS-23 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-24	CS-24 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-25	CS-25 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-26	CS-26 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-27	CS-27 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-28	CS-28 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-29	CS-29 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-30	CS-30 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-31	CS-31 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-32	CS-32 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-33	CS-33 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-34	SW-1 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-35	SW-2 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-36	SW-3 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-37	SW-4 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-38	SW-5 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-39	SW-6 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-40	SW-7(2.5'-3')	Soluble	Solid	DI Leach	
MB 880-49169/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49169/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49169/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26165-21 MS	CS-21 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-21 MSD	CS-21 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-31 MS	CS-31 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-31 MSD	CS-31 (2.5'-3')	Soluble	Solid	DI Leach	

Leach Batch: 49170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-41	SW-8 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-42	SW-9 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-43	SW-10 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-44	SW-11 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-45	SW-12 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-46	SW-13 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-47	SW-14 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-48	SW-15 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-49	SW-16 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-50	SW-17 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-51	SW-18 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-52	SW-19 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-53	SW-20 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-54	SW-21 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-55	SW-22 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-56	SW-23 (2.5'-3')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 49170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-57	SW-24 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-58	SW-25 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-59	SW-26 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-60	SW-27 (2.5'-3')	Soluble	Solid	DI Leach	
MB 880-49170/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49170/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49170/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26165-41 MS	SW-8 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-41 MSD	SW-8 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-51 MS	SW-18 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-51 MSD	SW-18 (2.5'-3')	Soluble	Solid	DI Leach	

Analysis Batch: 49408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-1	CS-1 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-2	CS-2 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-3	CS-3 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-4	CS-4 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-5	CS-5 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-6	CS-6 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-7	CS-7 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-8	CS-8 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-9	CS-9 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-10	CS-10 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-11	CS-11 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-12	CS-12 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-13	CS-13 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-14	CS-14 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-15	CS-15 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-16	CS-16 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-17	CS-17 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-18	CS-18 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-19	CS-19 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-20	CS-20 (2.5'-3')	Soluble	Solid	300.0	49168
MB 880-49168/1-A	Method Blank	Soluble	Solid	300.0	49168
LCS 880-49168/2-A	Lab Control Sample	Soluble	Solid	300.0	49168
LCSD 880-49168/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49168
880-26165-1 MS	CS-1 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-1 MSD	CS-1 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-11 MS	CS-11 (2.5'-3')	Soluble	Solid	300.0	49168
880-26165-11 MSD	CS-11 (2.5'-3')	Soluble	Solid	300.0	49168

Analysis Batch: 49417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-21	CS-21 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-22	CS-22 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-23	CS-23 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-24	CS-24 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-25	CS-25 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-26	CS-26 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-27	CS-27 (2.5'-3')	Soluble	Solid	300.0	49169

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 49417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-28	CS-28 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-29	CS-29 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-30	CS-30 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-31	CS-31 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-32	CS-32 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-33	CS-33 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-34	SW-1 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-35	SW-2 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-36	SW-3 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-37	SW-4 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-38	SW-5 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-39	SW-6 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-40	SW-7(2.5'-3')	Soluble	Solid	300.0	49169
MB 880-49169/1-A	Method Blank	Soluble	Solid	300.0	49169
LCS 880-49169/2-A	Lab Control Sample	Soluble	Solid	300.0	49169
LCSD 880-49169/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49169
880-26165-21 MS	CS-21 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-21 MSD	CS-21 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-31 MS	CS-31 (2.5'-3')	Soluble	Solid	300.0	49169
880-26165-31 MSD	CS-31 (2.5'-3')	Soluble	Solid	300.0	49169

Analysis Batch: 49425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-41	SW-8 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-42	SW-9 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-43	SW-10 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-44	SW-11 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-45	SW-12 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-46	SW-13 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-47	SW-14 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-48	SW-15 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-49	SW-16 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-50	SW-17 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-51	SW-18 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-52	SW-19 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-53	SW-20 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-54	SW-21 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-55	SW-22 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-56	SW-23 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-57	SW-24 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-58	SW-25 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-59	SW-26 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-60	SW-27 (2.5'-3')	Soluble	Solid	300.0	49170
MB 880-49170/1-A	Method Blank	Soluble	Solid	300.0	49170
LCS 880-49170/2-A	Lab Control Sample	Soluble	Solid	300.0	49170
LCSD 880-49170/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49170
880-26165-41 MS	SW-8 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-41 MSD	SW-8 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-51 MS	SW-18 (2.5'-3')	Soluble	Solid	300.0	49170
880-26165-51 MSD	SW-18 (2.5'-3')	Soluble	Solid	300.0	49170

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

HPLC/IC

Leach Batch: 49461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-61	SW-28 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-62	SW-29 (2.5'-3')	Soluble	Solid	DI Leach	
MB 880-49461/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49461/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49461/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26165-61 MS	SW-28 (2.5'-3')	Soluble	Solid	DI Leach	
880-26165-61 MSD	SW-28 (2.5'-3')	Soluble	Solid	DI Leach	

Analysis Batch: 49463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26165-61	SW-28 (2.5'-3')	Soluble	Solid	300.0	49461
880-26165-62	SW-29 (2.5'-3')	Soluble	Solid	300.0	49461
MB 880-49461/1-A	Method Blank	Soluble	Solid	300.0	49461
LCS 880-49461/2-A	Lab Control Sample	Soluble	Solid	300.0	49461
LCSD 880-49461/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49461
880-26165-61 MS	SW-28 (2.5'-3')	Soluble	Solid	300.0	49461
880-26165-61 MSD	SW-28 (2.5'-3')	Soluble	Solid	300.0	49461

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-1 (2.5'-3')

Lab Sample ID: 880-26165-1

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49344	03/24/23 06:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 10:43	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 00:07	SMC	EET MID

Client Sample ID: CS-2 (2.5'-3')

Lab Sample ID: 880-26165-2

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49344	03/24/23 06:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 11:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 00:22	SMC	EET MID

Client Sample ID: CS-3 (2.5'-3')

Lab Sample ID: 880-26165-3

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49344	03/24/23 07:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 12:12	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 00:27	SMC	EET MID

Client Sample ID: CS-4 (2.5'-3')

Lab Sample ID: 880-26165-4

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49344	03/24/23 07:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 09:31	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-4 (2.5'-3')

Lab Sample ID: 880-26165-4

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 12:33	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 00:32	SMC	EET MID

Client Sample ID: CS-5 (2.5'-3')

Lab Sample ID: 880-26165-5

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49344	03/24/23 07:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 12:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 00:36	SMC	EET MID

Client Sample ID: CS-6 (2.5'-3')

Lab Sample ID: 880-26165-6

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49344	03/24/23 08:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 13:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49408	03/23/23 00:51	SMC	EET MID

Client Sample ID: CS-7 (2.5'-3')

Lab Sample ID: 880-26165-7

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49344	03/24/23 08:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 13:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-7 (2.5'-3')

Lab Sample ID: 880-26165-7

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 00:56	SMC	EET MID

Client Sample ID: CS-8 (2.5'-3')

Lab Sample ID: 880-26165-8

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			4.95 g	5 mL	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49344	03/24/23 08:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 14:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 01:01	SMC	EET MID

Client Sample ID: CS-9 (2.5'-3')

Lab Sample ID: 880-26165-9

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49344	03/24/23 09:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 14:24	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 01:06	SMC	EET MID

Client Sample ID: CS-10 (2.5'-3')

Lab Sample ID: 880-26165-10

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49344	03/24/23 09:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 14:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 14:46	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 01:10	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-11 (2.5'-3')

Lab Sample ID: 880-26165-11

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 06:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/26/23 08:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 15:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 01:15	SMC	EET MID

Client Sample ID: CS-12 (2.5'-3')

Lab Sample ID: 880-26165-12

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 06:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/26/23 08:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 15:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 01:30	SMC	EET MID

Client Sample ID: CS-13 (2.5'-3')

Lab Sample ID: 880-26165-13

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 06:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/26/23 08:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 16:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 01:35	SMC	EET MID

Client Sample ID: CS-14 (2.5'-3')

Lab Sample ID: 880-26165-14

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 07:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/26/23 08:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-14 (2.5'-3')

Lab Sample ID: 880-26165-14

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 16:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 01:49	SMC	EET MID

Client Sample ID: CS-15 (2.5'-3')

Lab Sample ID: 880-26165-15

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 07:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/26/23 08:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 16:57	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 01:54	SMC	EET MID

Client Sample ID: CS-16 (2.5'-3')

Lab Sample ID: 880-26165-16

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 07:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/26/23 08:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 17:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 01:59	SMC	EET MID

Client Sample ID: CS-17 (2.5'-3')

Lab Sample ID: 880-26165-17

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			4.95 g	5 mL	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 08:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 17:41	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-17 (2.5'-3')**Lab Sample ID: 880-26165-17****Date Collected: 03/20/23 00:00****Matrix: Solid****Date Received: 03/21/23 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			4.96 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 02:04	SMC	EET MID

Client Sample ID: CS-18 (2.5'-3')**Lab Sample ID: 880-26165-18****Date Collected: 03/20/23 00:00****Matrix: Solid****Date Received: 03/21/23 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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 08:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 18:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 02:09	SMC	EET MID

Client Sample ID: CS-19 (2.5'-3')**Lab Sample ID: 880-26165-19****Date Collected: 03/20/23 00:00****Matrix: Solid****Date Received: 03/21/23 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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 08:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 18:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 02:13	SMC	EET MID

Client Sample ID: CS-20 (2.5'-3')**Lab Sample ID: 880-26165-20****Date Collected: 03/20/23 00:00****Matrix: Solid****Date Received: 03/21/23 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	49394	03/24/23 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/26/23 09:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49171	03/22/23 10:06	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 18:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49168	03/22/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49408	03/23/23 02:18	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-21 (2.5'-3')

Lab Sample ID: 880-26165-21

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/26/23 21:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 20:41	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 02:44	SMC	EET MID

Client Sample ID: CS-22 (2.5'-3')

Lab Sample ID: 880-26165-22

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/26/23 21:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 21:48	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 02:58	SMC	EET MID

Client Sample ID: CS-23 (2.5'-3')

Lab Sample ID: 880-26165-23

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/26/23 22:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 22:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 03:03	SMC	EET MID

Client Sample ID: CS-24 (2.5'-3')

Lab Sample ID: 880-26165-24

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/26/23 22:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-24 (2.5'-3')

Lab Sample ID: 880-26165-24

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 22:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 03:08	SMC	EET MID

Client Sample ID: CS-25 (2.5'-3')

Lab Sample ID: 880-26165-25

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/26/23 23:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 22:55	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 03:13	SMC	EET MID

Client Sample ID: CS-26 (2.5'-3')

Lab Sample ID: 880-26165-26

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/26/23 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 23:17	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 03:42	SMC	EET MID

Client Sample ID: CS-27 (2.5'-3')

Lab Sample ID: 880-26165-27

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 00:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 23:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-27 (2.5'-3')**Lab Sample ID: 880-26165-27****Date Collected: 03/20/23 00:00****Matrix: Solid****Date Received: 03/21/23 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			4.98 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 03:27	SMC	EET MID

Client Sample ID: CS-28 (2.5'-3')**Lab Sample ID: 880-26165-28****Date Collected: 03/20/23 00:00****Matrix: Solid****Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 00:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 00:01	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 03:32	SMC	EET MID

Client Sample ID: CS-29 (2.5'-3')**Lab Sample ID: 880-26165-29****Date Collected: 03/20/23 00:00****Matrix: Solid****Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 01:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 00:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 03:37	SMC	EET MID

Client Sample ID: CS-30 (2.5'-3')**Lab Sample ID: 880-26165-30****Date Collected: 03/20/23 00:00****Matrix: Solid****Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 01:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 00:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 03:47	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: CS-31 (2.5'-3')

Lab Sample ID: 880-26165-31

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 01:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 03:52	SMC	EET MID

Client Sample ID: CS-32 (2.5'-3')

Lab Sample ID: 880-26165-32

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 03:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 01:51	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 04:06	SMC	EET MID

Client Sample ID: CS-33 (2.5'-3')

Lab Sample ID: 880-26165-33

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 04:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 02:12	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 04:11	SMC	EET MID

Client Sample ID: SW-1 (2.5'-3')

Lab Sample ID: 880-26165-34

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 04:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-1 (2.5'-3')

Lab Sample ID: 880-26165-34

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 02:34	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 04:26	SMC	EET MID

Client Sample ID: SW-2 (2.5'-3')

Lab Sample ID: 880-26165-35

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 04:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 02:56	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 04:30	SMC	EET MID

Client Sample ID: SW-3 (2.5'-3')

Lab Sample ID: 880-26165-36

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 05:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 03:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 04:35	SMC	EET MID

Client Sample ID: SW-4 (2.5'-3')

Lab Sample ID: 880-26165-37

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			4.96 g	5 mL	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 05:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 03:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-4 (2.5'-3')

Lab Sample ID: 880-26165-37

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			5.01 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 04:40	SMC	EET MID

Client Sample ID: SW-5 (2.5'-3')

Lab Sample ID: 880-26165-38

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 06:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 04:02	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 04:45	SMC	EET MID

Client Sample ID: SW-6 (2.5'-3')

Lab Sample ID: 880-26165-39

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 06:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 04:24	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 04:50	SMC	EET MID

Client Sample ID: SW-7(2.5'-3')

Lab Sample ID: 880-26165-40

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49193	03/22/23 11:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49554	03/27/23 07:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49183	03/22/23 10:42	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/23/23 04:45	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49169	03/22/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49417	03/23/23 04:55	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-8 (2.5'-3')

Lab Sample ID: 880-26165-41

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 02:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 20:41	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 12:27	SMC	EET MID

Client Sample ID: SW-9 (2.5'-3')

Lab Sample ID: 880-26165-42

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 02:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 21:48	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 12:42	SMC	EET MID

Client Sample ID: SW-10 (2.5'-3')

Lab Sample ID: 880-26165-43

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 03:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 22:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 12:47	SMC	EET MID

Client Sample ID: SW-11 (2.5'-3')

Lab Sample ID: 880-26165-44

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 03:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-11 (2.5'-3')

Lab Sample ID: 880-26165-44

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 22:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 12:51	SMC	EET MID

Client Sample ID: SW-12 (2.5'-3')

Lab Sample ID: 880-26165-45

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 03:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 22:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 12:56	SMC	EET MID

Client Sample ID: SW-13 (2.5'-3')

Lab Sample ID: 880-26165-46

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 04:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 23:17	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 13:11	SMC	EET MID

Client Sample ID: SW-14 (2.5'-3')

Lab Sample ID: 880-26165-47

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 04:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/22/23 23:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-14 (2.5'-3')

Lab Sample ID: 880-26165-47

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			4.96 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 13:16	SMC	EET MID

Client Sample ID: SW-15 (2.5'-3')

Lab Sample ID: 880-26165-48

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 04:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 00:01	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 13:20	SMC	EET MID

Client Sample ID: SW-16 (2.5'-3')

Lab Sample ID: 880-26165-49

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 05:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 00:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 13:25	SMC	EET MID

Client Sample ID: SW-17 (2.5'-3')

Lab Sample ID: 880-26165-50

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 05:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 00:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 13:30	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-18 (2.5'-3')

Lab Sample ID: 880-26165-51

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 07:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 01:29	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 13:35	SMC	EET MID

Client Sample ID: SW-19 (2.5'-3')

Lab Sample ID: 880-26165-52

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 07:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 01:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 13:50	SMC	EET MID

Client Sample ID: SW-20 (2.5'-3')

Lab Sample ID: 880-26165-53

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			4.96 g	5 mL	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 07:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 02:12	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 13:54	SMC	EET MID

Client Sample ID: SW-21 (2.5'-3')

Lab Sample ID: 880-26165-54

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 08:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-21 (2.5'-3')

Lab Sample ID: 880-26165-54

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 02:34	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 14:09	SMC	EET MID

Client Sample ID: SW-22 (2.5'-3')

Lab Sample ID: 880-26165-55

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 08:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 02:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 14:14	SMC	EET MID

Client Sample ID: SW-23 (2.5'-3')

Lab Sample ID: 880-26165-56

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 08:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 03:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 14:19	SMC	EET MID

Client Sample ID: SW-24 (2.5'-3')

Lab Sample ID: 880-26165-57

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 09:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 03:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-24 (2.5'-3')

Lab Sample ID: 880-26165-57

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			4.98 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 14:24	SMC	EET MID

Client Sample ID: SW-25 (2.5'-3')

Lab Sample ID: 880-26165-58

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 09:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 04:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 14:28	SMC	EET MID

Client Sample ID: SW-26 (2.5'-3')

Lab Sample ID: 880-26165-59

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 10:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 04:24	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 14:33	SMC	EET MID

Client Sample ID: SW-27 (2.5'-3')

Lab Sample ID: 880-26165-60

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49196	03/22/23 11:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49543	03/27/23 10:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/27/23 13:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49182	03/22/23 10:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49153	03/23/23 04:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49170	03/22/23 09:43	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49425	03/23/23 14:38	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Client Sample ID: SW-28 (2.5'-3')

Lab Sample ID: 880-26165-61

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/24/23 02:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 17:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/22/23 20:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49461	03/24/23 17:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49463	03/24/23 18:37	SMC	EET MID

Client Sample ID: SW-29 (2.5'-3')

Lab Sample ID: 880-26165-62

Date Collected: 03/20/23 00:00

Matrix: Solid

Date Received: 03/21/23 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			4.95 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/24/23 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49380	03/24/23 17:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			49314	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/22/23 21:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49461	03/24/23 17:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49463	03/24/23 18:51	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: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26165-1	CS-1 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-2	CS-2 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-3	CS-3 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-4	CS-4 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-5	CS-5 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-6	CS-6 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-7	CS-7 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-8	CS-8 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-9	CS-9 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-10	CS-10 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-11	CS-11 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-12	CS-12 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-13	CS-13 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-14	CS-14 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-15	CS-15 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-16	CS-16 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-17	CS-17 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-18	CS-18 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-19	CS-19 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-20	CS-20 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-21	CS-21 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-22	CS-22 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-23	CS-23 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-24	CS-24 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-25	CS-25 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-26	CS-26 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-27	CS-27 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-28	CS-28 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-29	CS-29 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-30	CS-30 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-31	CS-31 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-32	CS-32 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-33	CS-33 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-34	SW-1 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-35	SW-2 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-36	SW-3 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-37	SW-4 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-38	SW-5 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-39	SW-6 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-40	SW-7(2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-41	SW-8 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-42	SW-9 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-43	SW-10 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-44	SW-11 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-45	SW-12 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-46	SW-13 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-47	SW-14 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-48	SW-15 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-49	SW-16 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-50	SW-17 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-51	SW-18 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-52	SW-19 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-53	SW-20 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-54	SW-21 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56

Sample Summary

Client: Carmona Resources
Project/Site: Hallertau 5 Fed #4

Job ID: 880-26165-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26165-55	SW-22 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-56	SW-23 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-57	SW-24 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-58	SW-25 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-59	SW-26 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-60	SW-27 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-61	SW-28 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56
880-26165-62	SW-29 (2.5'-3')	Solid	03/20/23 00:00	03/21/23 10:56

Chair of Custody

Work Order No

5/21/22

Page 1 of 7

Project Manager	Ashton Thielke	Bill to (if different)	Laci Luig
Company Name	Carrmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Marienfield St, Suite 600
City State ZIP	Midland, TX 79701	City State ZIP	Midland TX 79701
Phone	432-813-5347	Email	laci.luig@colterra.com ashton.thielke@colterra.com

Work Order Comments	
Program	UST/ST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level II	☐ Level III ☐ P-ST/UST ☐ RRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other: _____

Project Name		Hallerau 5 Fed #4		Turn Around		ANALYSIS REQUEST										Preservative Codes					
Project Number		1231		☐ Routine ☒ Rush		Pres. Code												None NO		DI Water, H ₂ O	
Project Location		Lea Co NM		Due Date		24 hour												Cool Cool		MeOH Me	
Sampler's Name		AT																HCL HC		HNO ₃ HN	
PO #																		H ₂ SO ₄ H ₂		NaOH Na	
SAMPLE RECEIPT		Temp Blank		Yes (No)		Wet Ice		Yes (No)										H PO ₄ HP			
Received Inact:		(Yes) No				Thermometer ID		885										NaHSO ₄ NABIS			
Cooler Custody Seals:		Yes No		NA		Correction Factor		0.5										Na ₂ S ₂ O ₃ NaSO ₃			
Sample Custody Seals:		Yes No		NA		Temperature Reading		0.5										Zn Acetate+NaOH Zn			
Total Containers						Corrected Temperature		0.5										NaOH+Ascorbic Acid SAPC			

[illegible]

Please send results to cmoebring@carmonaresources.com and mcarmona@carmona.com.



880-26165 Chain of Custody

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>Almanna Lines</i>	<i>[Signature]</i>	3-21-23	2		
3			4		
5		1054	6		

C ai Cus ody

Work Order No: 201105

Project Manager	Ashton Thielke	Bill to (if different)	Laci Lugo
Company Name	Carmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Marienfield St. Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland TX 79701
Phone	432-813-5347	Email	laci.lugo@colterra.com ashton.thielke@colterra.com

Work Order Comments	
Program, UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ Unperfund
State of Project	Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name		Hallerau 5 Fed #4		Turn Around			Pres. Code	ANALYSIS REQUEST										Preservative Codes	
Project Number	1231	☐ Routine	☒ Rush	Due Date	24 hour												None NO	DI Water- H ₂ O	
Project Location	Lea Co NM			TAT starts the day received by the lab if received by 4 30pm													Cool Cool	MeOH Me	
Sampler's Name	AT																HCL HC	HNO ₃ HN	
PO #:																	H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT		Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐	Parameters													
Received In tact:		Thermometer ID				BTEx 8021B													
Cooler Custody Seals	Yes No ☒	Correction Factor				TPH 8015M (GRO + DRO + MRO)													
Sample Custody Seals	Yes No ☒	Temperature Reading				Chloride 300.0													
Total Containers		Corrected Temperature																	
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
CS-11 (2 5-3)		3 20 2023		X		Comp	1	X	X	X									
CS-12 (2 5-3)		3 20 2023		X		Comp	1	X	X	X									
CS-13 (2 5-3)		3 20 2023		X		Comp	1	X	X	X									
CS-14 (2 5-3)		3 20 2023		X		Comp	1	X	X	X									
CS-15 (2 5-3)		3 20 2023		X		Comp	1	X	X	X									
CS-16 (2 5-3)		3 20 2023		X		Comp	1	X	X	X									
CS-17 (2 5-3)		3 20 2023		X		Comp	1	X	X	X									
CS-18 (2 5-3)		3 20 2023		X		Comp	1	X	X	X									
CS-19 (2 5-3)		3 20 2023		X		Comp	1	X	X	X									
CS-20 (2 5-3)		3 20 2023		X		Comp	1	X	X	X									

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>Carmona Lugo</i>	<i>[Signature]</i>	3-21-23			

- 1
- 2
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- 13
- 14

Chair of Custody

Work Order No: 201165

Page 3 of 7

Project Manager	Ashton Thielke	Bill to (if different)	Laci Lugo
Company Name	Carmona Resources	Company Name	Cinrax Energy
Address	310 West Wall Ste 415	Address	600 N Marientfield St, Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland TX 79701
Phone	432-813-5347	Email	laci.lugo@coterra.com ashton.thielke@coterra.com

Work Order Comments	
Program	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other

Project Name	Hallerlau 5 Fed #4	Turn Around	☐ Routine ☒ Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes											
Project Number	1231	Due Date	24 hour															None NO	DI Water H ₂ O							
Project Location	Lea Co NM	TAT starts the day received by the lab if received by 4 30pm																Cool Cool	MeOH Me							
Sampler's Name	AT																	HCL HC	HNO ₃ HN							
PO #																		H ₂ SO ₄ H ₂	NaOH Na							
SAMPLE RECEIPT	Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐	Parameters										HOLD											
	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									
CS-21 (2.5-3)	3 20 2023		X		Comp	1	X	X	X																	
CS-22 (2.5-3)	3 20 2023		X		Comp	1	X	X	X																	
CS-23 (2.5-3)	3 20 2023		X		Comp	1	X	X	X																	
CS-24 (2.5-3)	3 20 2023		X		Comp	1	X	X	X																	
CS-25 (2.5-3)	3 20 2023		X		Comp	1	X	X	X																	
CS-26 (2.5-3)	3 20 2023		X		Comp	1	X	X	X																	
CS-27 (2.5-3)	3 20 2023		X		Comp	1	X	X	X																	
CS-28 (2.5-3)	3 20 2023		X		Comp	1	X	X	X																	
CS-29 (2.5-3)	3 20 2023		X		Comp	1	X	X	X																	
CS-30 (2.5-3)	3 20 2023		X		Comp	1	X	X	X																	

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<u>Monna Luna</u>	<u>[Signature]</u>	3-21-23			

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Chain of custody

Work Order No: 20165

Project Manager	Ashton Thielke	Bill to (if different)	Laci Luig
Company Name	Carmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Marientfield St. Suite 600
City, State ZIP	Midland TX 79701	City, State ZIP	Midland, TX 79701
Phone	432-813-5347	Email	laci.luig@coierra.com ashton.thielke@coierra.com

Page 4 of 7

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other	

Project Name		Halterau 5 Fed #4		Turn Around			ANALYSIS REQUEST												Preservative Codes	
Project Number	1231		☐ Routine	☒ Rush	Pres. Code													None NO	DI Water H ₂ O	
Project Location	Lea Co NM		Due Date	24 hour														Cool Cool	MeOH Me	
Sampler's Name	AT		TAT starts the day received by the lab if received by 4:30pm															HCL HC	HNO ₃ HN	
PO #																		H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT			Temp Blank	Yes	No	Wet Ice	Yes	No											H ₃ PO ₄ HP	
Received Inact:			Yes	No	Thermometer ID	Yes	No											NaHSO ₄ NABIS		
Cooler Custody Seals			Yes	No	Correction Factor	Yes	No											Na ₂ S ₂ O ₃ NaSO ₃		
Sample Custody Seals			Yes	No	Temperature Reading	Yes	No											Zn Acetate+NaOH Zn		
Total Containers					Corrected Temperature													NaOH+Ascorbic Acid SAPC		
Sample Identification			Date	Time	Soil	Water	Grab/Comp	# of Cont	BTEX 8021B										Sample Comments	
CS-31 (2 5'-3')			3 20 2023		X		Comp	1	X	X	X									
CS-32 (2 5'-3')			3 20 2023		X		Comp	1	X	X	X									
CS-33 (2 5'-3')			3 20 2023		X		Comp	1	X	X	X									
SW-1 (2 5'-3')			3 20 2023		X		Comp	1	X	X	X									
SW-2 (2 5'-3')			3 20 2023		X		Comp	1	X	X	X									
SW-3 (2 5'-3')			3 20 2023		X		Comp	1	X	X	X									
SW-4 (2 5'-3')			3 20 2023		X		Comp	1	X	X	X									
SW-5 (2 5'-3')			3 20 2023		X		Comp	1	X	X	X									
SW-6 (2 5'-3')			3 20 2023		X		Comp	1	X	X	X									
SW-7 (2 5'-3')			3 20 2023		X		Comp	1	X	X	X									

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>Carmona Muey</i>	<i>BQW</i>	3-21-23			

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Chet at Custody

Work Order No: 201165

Project Manager
Company Name
Address
City, State ZIP
Phone

Ashton Thielke
Carmona Resources
310 West Wall Ste 415
Midland, TX 79701
432-813-5347

Bill to (if different)
Company Name
Address
City State ZIP
Email

Laci Luig
Cimarex Energy
600 N Marientfield St. Suite 600
Midland, TX 79701
laci.luig@coterra.com
ashton.thielke@coterra.com

Project Name
Project Number
Project Location
Sampler's Name
PO #

Hallertau 5 Fed #4
1231
Lea Co NM
AT
TAT starts the day received by the lab if received by 4 30pm

Pres. Code

ANALYSIS REQUEST

Program UST/PST
State of Project
Reporting Level II
Deliverables

☐ PRP ☐ Brownfields ☐ RRC ☐ upertund
☐ Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV
☐ EDD ☐ ADAPT ☐ Other

Work Order Comments

Project Name		Hallertau 5 Fed #4		Turn Around		ANALYSIS REQUEST												Preservative Codes	
Project Number	1231	☐ Routine	☒ Rush	Press. Code													None NO	DI Water H2O	
Project Location	Lea Co NIM	Due Date	24 hour														Cool Cool	MeOH Me	
Sampler's Name	AT	TAT starts the day received by the lab if received by 4 30pm															HCL HC	HNO3 HN	
PO #:																	H2SO4 H2	NaOH Na	
SAMPLE RECEIPT		Temp Blank	Yes	Wet Ice	No	Parameters												HOLD	
Received Intact:	☒ Yes ☐ No	Thermometer ID	☒ Yes ☐ No			BTX 8021B													
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor	☒ Yes ☐ No			TPH 8015M (GRO + DRO + MRO)													
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading	☒ Yes ☐ No			Chloride 300.0													
Total Containers		Corrected Temperature																	
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
SW-8 (2 5'-3')		3 20 2023		X		Comp	1	X	X	X									
SW-9 (2 5'-3')		3 20 2023		X		Comp	1	X	X	X									
SW-10 (2 5'-3')		3 20 2023		X		Comp	1	X	X	X									
SW-11 (2 5'-3')		3 20 2023		X		Comp	1	X	X	X									
SW-12 (2 5'-3')		3 20 2023		X		Comp	1	X	X	X									
SW-13 (2 5'-3')		3 20 2023		X		Comp	1	X	X	X									
SW-14 (2 5'-3')		3 20 2023		X		Comp	1	X	X	X									
SW-15 (2 5'-3')		3 20 2023		X		Comp	1	X	X	X									
SW-16 (2 5'-3')		3 20 2023		X		Comp	1	X	X	X									
SW-17 (2 5'-3')		3 20 2023		X		Comp	1	X	X	X									
														</					

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>Carmona Luig</i>	<i>[Signature]</i>	3-21-23			
3					
5		1056			

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C 2' o Cast ay

Work Order No: 26105

Project Manager	Ashton Thielke	Bill to (if different)	Laci Luig
Company Name	Carmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Marientfield St. Suite 600
City, State ZIP	Midland TX 79701	City State ZIP	Midland TX 79701
Phone	432-813-5347	Email	laci.luig@coterra.com ashton.thielke@coterra.com

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables, EDD ☐	ADAPT ☐ Other ☐

Project Name		Hallertau 5 Fed #4		Turn Around			ANALYSIS REQUEST												Preservative Codes	
Project Number	1231	☐ Routine	☒ Rush	Pres. Code													None NO	DI Water H ₂ O		
Project Location	Lea Co NM	Due Date	24 hour														Cool Cool	MeOH Me		
Sampler's Name	AT	TAT starts the day received by the lab if received by 4:30pm															HCL HC	HNO ₃ HN		
PO #																	H ₂ SO ₄ H ₂	NaOH Na		
SAMPLE RECEIPT		Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐	Parameters												HOLD		
Received Intact.	Yes ☒ No ☐	Thermometer ID	107	Correction Factor	-0.7															
Cooler Custody Seals.	Yes No ☒	Temperature Reading	28.5	Corrected Temperature																
Sample Custody Seals	Yes No ☒																			
Total Containers																				
Sample Identification		Date	Time	Soil	Water	Grav/Comp	# of Cont											Sample Comments		
SW-18 (2 5-3)		3 20 2023		X		Comp	1	X	X	X										
SW-19 (2 5-3)		3 20 2023		X		Comp	1	X	X	X										
SW-20 (2 5-3)		3 20 2023		X		Comp	1	X	X	X										
SW-21 (2 5-3)		3 20 2023		X		Comp	1	X	X	X										
SW-22 (2 5-3)		3 20 2023		X		Comp	1	X	X	X										
SW-23 (2 5-3)		3 20 2023		X		Comp	1	X	X	X										
SW-24 (2 5-3)		3 20 2023		X		Comp	1	X	X	X										
SW-25 (2 5-3)		3 20 2023		X		Comp	1	X	X	X										
SW-26 (2 5-3)		3 20 2023		X		Comp	1	X	X	X										
SW-27 (2 5-3)		3 20 2023		X		Comp	1	X	X	X										

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <u>Quana Mues</u>	<u>[Signature]</u>	3-21-23	2		
3			4		
5		1034	6		

Chris O'Casey

Work Order No.:

20105

Page 7 of 7

Project Manager	Ashton Thielke	Bill to (if different)	Laci Luig
Company Name	Carrmona Resources	Company Name	Cimarex Energy
Address.	310 West Wall Ste 415	Address	600 N Marientfield St. Suite 600
City, State ZIP	Midland, TX 79701	City State ZIP	Midland TX 79701
Phone	432-813-5347	Email	laci.luig@ccolterra.com ashton.thielke@ccolterra.com

Work Order Comments	
Program, UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project.	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other ☐	

[illegible]

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>Amara Hues</i>	<i>[Signature]</i>	3-21-23	2		
3			4		
5		1054	6		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-26165-1

SDG Number: Lea Co, NM

Login Number: 26165

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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

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 214757

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 214757
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral request approved. Remediation Due date left open until plug and abandonment of the facility is completed.	7/28/2023