



SITE INFORMATION

**Closure Report
Warren State #1
Lea County, New Mexico
API No. 30-025-34034
Unit I Sec 35 T15S R37E
32.970243°, -103.164268°**

**1RP-4732
Produced Water
Point of Release: Produced Water Tanks
Release Date: 06/06/17
Volume Released: 200 Barrels of Produced Water
Volume Recovered: 200 barrels of Produced Water**

CARMONA RESOURCES



**1RP-4738
Produced Water
Point of Release: Produced Water Tanks
Release Date: 06/08/17
Volume Released: 1,200 Barrels of Produced Water
Volume Recovered: 200 barrels of Produced Water**

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

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

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Midland TX, 79701
432.813.1992



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January 13, 2023

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

**Re: Closure Report
Warren State #1
Marathon Oil Corporation
1RP-4738 & 1RP-4732
Site Location: Unit I, S35, T15S, R37E
(Lat 32.970243°, Long -103.164268°)
Lea County, New Mexico**

To whom it may concern:

On behalf of Marathon Oil Corporation (Marathon), Carmona Resource, LLC has prepared this letter to document site activities for the Warren State #1. The site is located at the GPS 32.970243°, -103.164268° within Unit I S35, T15S, R37E in Lea County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

1RP-4732

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on June 6, 2017. The release was caused by a high-level switch malfunction causing the produced water tank to overflow. It resulted in the release of approximately two hundred (200) barrels of produced water, and two hundred (200) barrels were recovered. The impacted area was on the pad, as shown in Figure 3. The initial C-141 form is attached in Appendix C.

1RP-4738

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on June 8, 2017. The release was caused by a pump malfunction causing the produced water tank to overflow. It resulted in the release of approximately twelve hundred (1,200) barrels of produced water, and two hundred (200) barrels were recovered. The impacted area was on the pad and pasture, as shown in Figure 3. The initial C-141 form is attached in Appendix C.

Approved Work Plan and Variance Request

On June 4, 2018, a work plan was approved to proceed with remediation of the site with the following stipulations:

- Confirmation sidewall and bottom samples would be required.
- Areas with liners installed at 4.0' bgs would be marked with GPS coordinates.
- Photo documentation of all associated activities.

On September 29, 2022, a variance request was approved for confirmation floor and sidewall samples to be collected every 500 square feet. See Appendix C.

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2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are four known water sources within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.12 miles North of the site in S35, T15S, R75E and was drilled in 1956. The well has a reported depth to groundwater of 45' below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D. As a contingency in the work plan approved September 21, 2017 it was noted that if groundwater was encountered during the delineation process, that a temporary groundwater well would be installed and sampled per NMOCD regulations. In the work plan approved June 4, 2018 it was noted that during the process of delineation one borehole was installed to a total depth of 55' bgs. No groundwater or moisture was encountered during the drilling of this borehole, and no characteristics of any water-bearing soil or rock formations were noted.

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, along with the specific excavation depths detailed in the approved work plan.

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

4.0 Site Assessment Activities

Initial Assessment

On November 7, 2017, prior to the assessment, the tank battery and facility equipment was removed. A third-party consultant performed site assessment activities to evaluate soil impacts stemming from the releases. A total of nine (9) boreholes were advanced to depths ranging from surface to 55.0' bgs within the release areas to determine the vertical extent. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix E. The results of the sampling are summarized in the Initial Delineation Table (pgs. 13-15). The sample locations are shown on Figure 3.

5.0 Remediation/Reclamation Activities

It was Marathon's intention to remediate the outstanding incidents detailed in this report in tandem with final reclamation of the site. Carmona Resources personnel were on-site from September 28, 2022, through December 27, 2022, to guide the remediation activities as detailed in the approved work plan, collect confirmation samples, and document all associated activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on October 11, 2022, November 14, 2022, and November 17, 2022, per Subsection D of 19.15.29.12 NMAC. See Appendix C. As detailed in the plan, the areas BH-1 through BH-5 were excavated to a depth of 6.0' bgs; the area of BH-6 was excavated to a depth of 20.0' bgs; and BH-7 through BH-9 were excavated to a depth of 4.0' bgs. The excavation of the area represented by BH6 was extended laterally to ensure achievement of closure criteria; See Table 2.

A total of sixty-four(64) confirmation bottom hole samples were collected (CS-1 through CS-64), and twenty-three (23) sidewall samples (SW-1 through SW-23) every 500 square feet. 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 and method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The sampling results are summarized in Table 2. The excavation depths and confirmation sample locations are shown in Figure 4A and Figure 4B.

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

On December 20, 2022, Marathon met with Bradford Billings and Jocelyn Harimon to discuss concerns and seek approval of backfilling the excavation in the areas represented by BH-1 through BH-9. Approval was granted on December 20, 2022 and correspondence is included in Appendix C. Once the remediation activities were completed, an engineered, 20 mil. liner was placed at 6' feet bgs in the excavation represented by BH-1 through BH-5, and at 4' bgs in the excavation represented by BH-6 through BH-9. Each area was then backfilled to grade with clean material to match the surrounding area and promote the establishment of vegetation.

6.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required for 1RP-4732 and 1RP-4738, and on Marathon's behalf we request closure for these incidents. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,
Carmona Resources, LLC

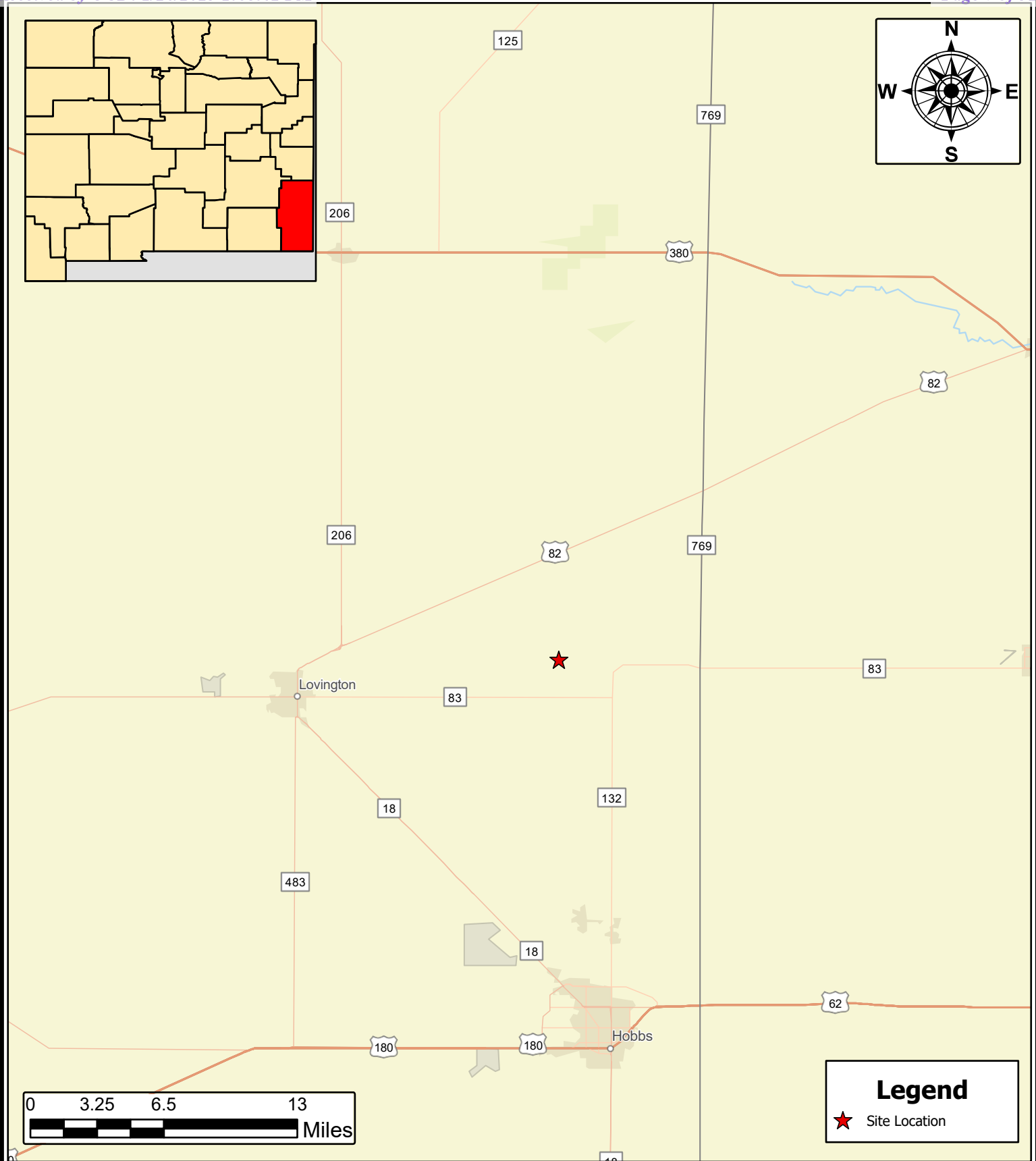
Mike Carmona
Environmental Manager

Clinton Merritt
Sr. Project Manager

FIGURES

CARMONA RESOURCES



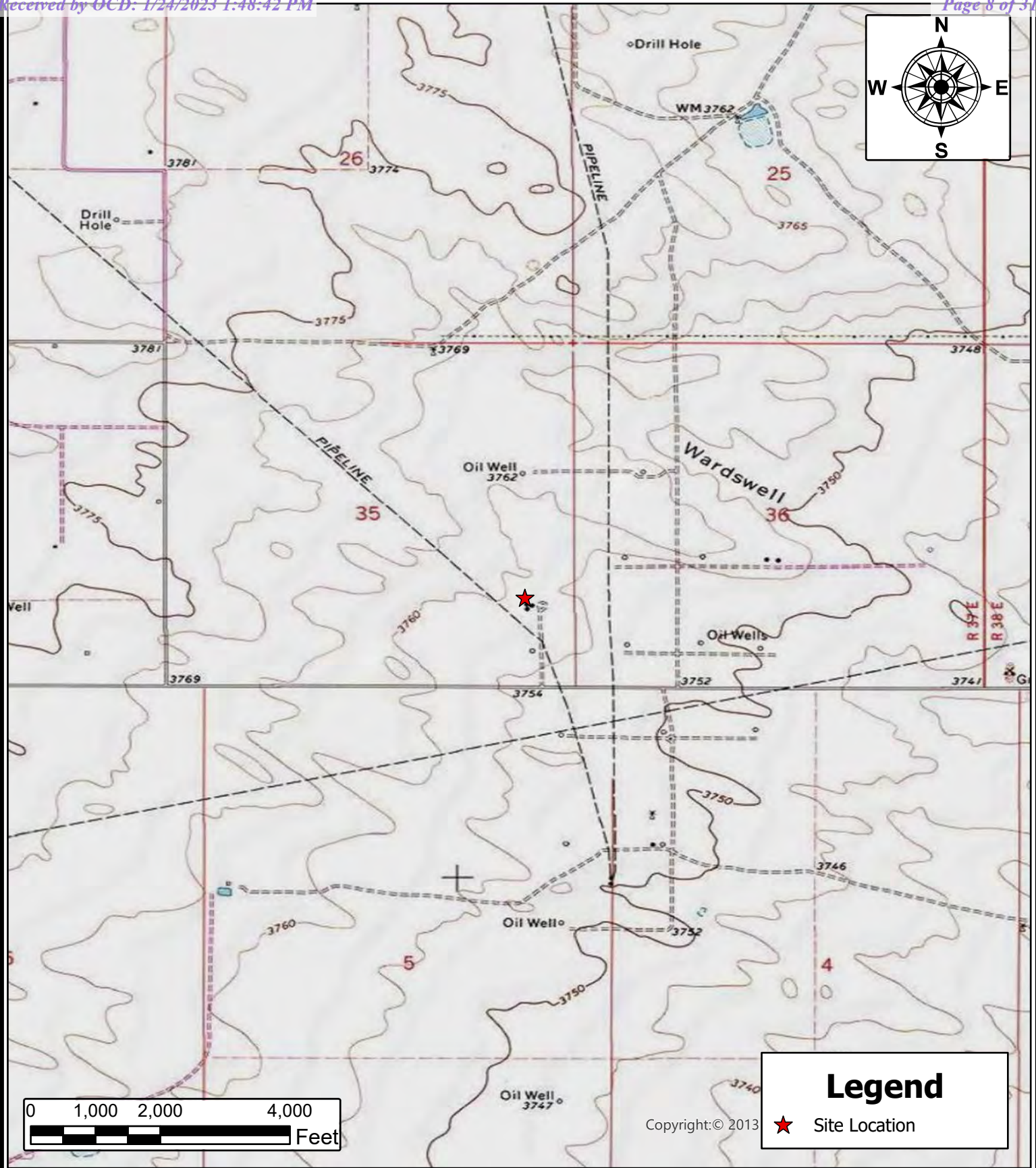


OVERVIEW MAP MARATHON OIL CORPORATION WARREN STATE #1 LEA COUNTY, NEW MEXICO 32.970243, -103.164268	
SCALE: As Shown	Date: 1/4/2023

 Carmona Resources 310 West Wall Street, Suite 415 Midland, Texas 79701
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NOTES: 1. Base Image: ESRI Maps & Data 2023 2. Map Projection: WGS84

DRAWING NUMBER: FIGURE 1
SHEET NUMBER: 1 of 1



TOPOGRAPHIC MAP
MARATHON OIL CORPORATION
WARREN STATE #1
LEA COUNTY, NEW MEXICO
32.970243, -103.164268

SCALE: As Shown

Date: 1/4/2023



Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:

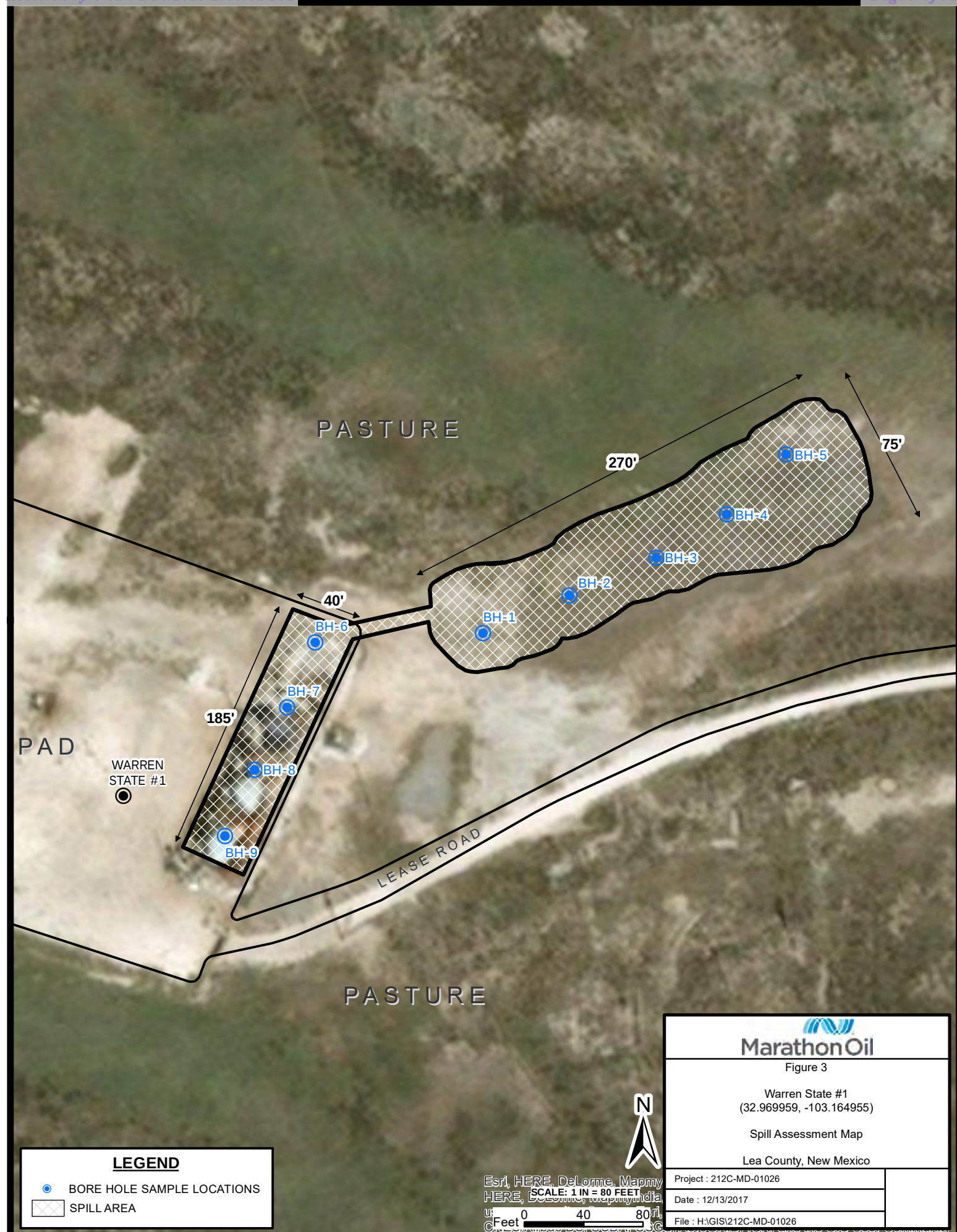
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 2

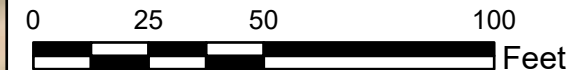
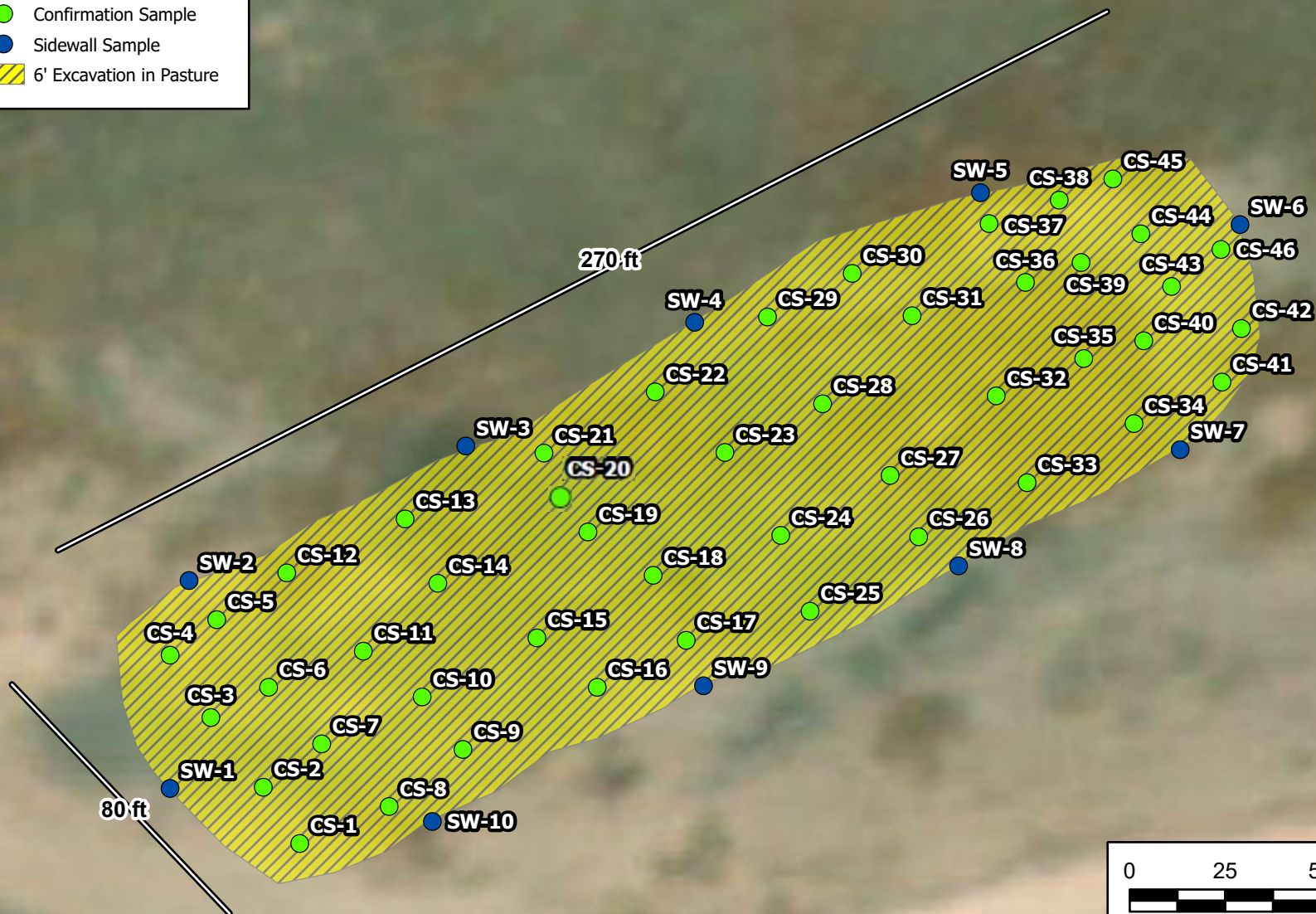
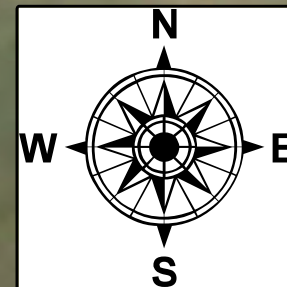
SHEET NUMBER:

1 of 1



Legend

- Confirmation Sample
- Sidewall Sample
- 6' Excavation in Pasture



EXCAVATION DEPTH MAP
MARATHON OIL CORPORATION
 WARREN STATE #1
 LEA COUNTY, NEW MEXICO
 32.970243, -103.164268



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NOTES:

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

DRAWING NUMBER:

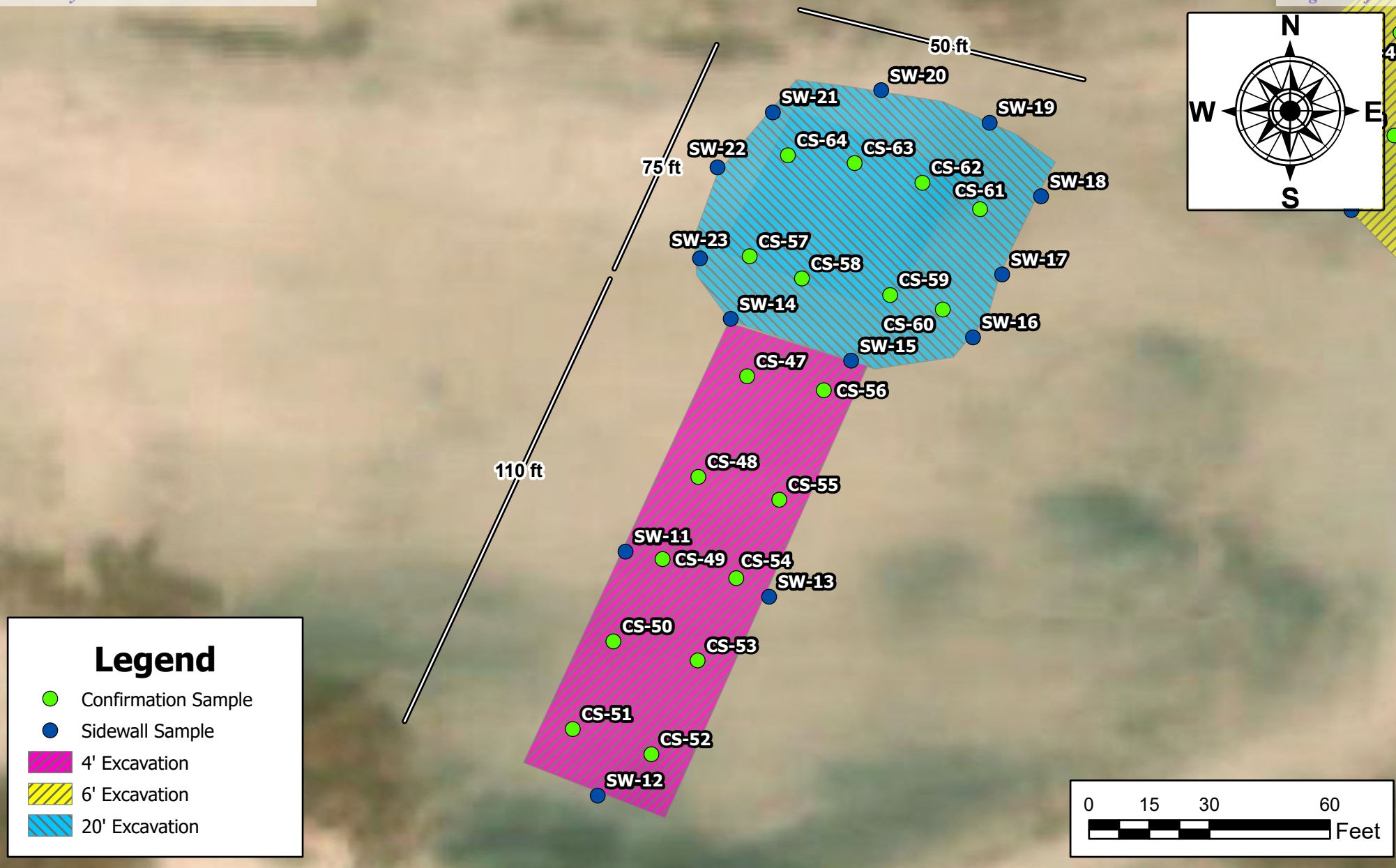
FIGURE 4A

SHEET NUMBER:

1 of 1

SCALE: As Shown

Date: 1/4/2023



Legend

- Confirmation Sample
- Sidewall Sample
- 4' Excavation
- 6' Excavation
- 20' Excavation

0 15 30 60
Feet

EXCAVATION DEPTH MAP
MARATHON OIL CORPORATION
 WARREN STATE #1
 LEA COUNTY, NEW MEXICO
 32.970243, -103.164268



Carmona Resources
 310 West Wall Street, Suite 415
 Midland, Texas 79701

NOTES:

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

DRAWING NUMBER:

FIGURE 4B

SHEET NUMBER:

1 of 1

SCALE: As Shown

Date: 1/4/2023

APPENDIX A

CARMONA RESOURCES



Initial Delineation from
Work Plan
Marathon Oil
Corporation Warren
State #1
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						
BH-1	11/1/2017	0-1'	<15.0	384	88.8	473	<0.00201	<0.00201	<0.00201	0.00463	0.00463	2,750
	"	2'-3'	<15.0	89.9	<15.0	89.9	-	-	-	-	-	2,740
	"	4'-5'	-	-	-	-	-	-	-	-	-	2,980
	"	6'-7'	-	-	-	-	-	-	-	-	-	2,570
	"	9'-10'	-	-	-	-	-	-	-	-	-	1,980
	"	14'-15'	-	-	-	-	-	-	-	-	-	1,070
	"	19'-20'	-	-	-	-	-	-	-	-	-	2,500
	"	24'-25'	-	-	-	-	-	-	-	-	-	2,920
	"	29'-30'	-	-	-	-	-	-	-	-	-	979
	"	34'-35'	-	-	-	-	-	-	-	-	-	144
	"	39'-40'	-	-	-	-	-	-	-	-	-	115
	"	44'-45'	-	-	-	-	-	-	-	-	-	58.1
"	50.0	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	41.0	
BH-2	11/1/2017	0-1'	<15.0	85.7	17.3	103	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	63.1
	"	2'-3'	<15.0	58.0	<15.0	58.0	-	-	-	-	-	89.7
	"	4'-5'	-	-	-	-	-	-	-	-	-	1,170
	"	6'-7'	-	-	-	-	-	-	-	-	-	1,400
	"	9'-10'	-	-	-	-	-	-	-	-	-	544
	"	14'-15'	-	-	-	-	-	-	-	-	-	495
	"	19'-20'	-	-	-	-	-	-	-	-	-	709
	"	24'-25'	-	-	-	-	-	-	-	-	-	266
	"	30.0	-	-	-	-	-	-	-	-	-	199
	"	40.0	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	42.6
BH-3	11/1/2017	0-1'	<15.0	72.9	<15.0	72.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	554
	"	2'-3'	-	-	-	-	-	-	-	-	-	855
	"	4'-5'	-	-	-	-	-	-	-	-	-	1,750
	"	6'-7'	-	-	-	-	-	-	-	-	-	168
	"	9'-10'	-	-	-	-	-	-	-	-	-	211
	"	14'-15'	-	-	-	-	-	-	-	-	-	653
	"	19'-20'	-	-	-	-	-	-	-	-	-	239
	"	24'-25'	-	-	-	-	-	-	-	-	-	135
	"	29'-30'	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	280
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

(BH) - Borehole

- Not Analyzed

 Removed Liner Installed

**Initial Delineation from
Work Plan
Marathon Oil Corporation
Warren State #1
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						
BH-4	11/1/2017	0-1'	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,190
	"	2'-3'	-	-	-	-	-	-	-	-	-	1,320
	"	4'-5'	-	-	-	-	-	-	-	-	-	330
	"	6'-7'	-	-	-	-	-	-	-	-	-	198
	"	9'-10'	-	-	-	-	-	-	-	-	-	69.7
	"	14'-15'	-	-	-	-	-	-	-	-	-	59.8
	"	19'-20'	<14.9	<14.9	<14.9	<14.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	66.6
BH-5	11/1/2017	0-1'	<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	32.8
	"	2'-3'	-	-	-	-	-	-	-	-	-	34.9
	"	4'-5'	-	-	-	-	-	-	-	-	-	587
	"	6'-7'	-	-	-	-	-	-	-	-	-	739
	"	9'-10'	-	-	-	-	-	-	-	-	-	228
	"	14'-15'	-	-	-	-	-	-	-	-	-	124
	"	19'-20'	-	-	-	-	-	-	-	-	-	107
	"	24'-25'	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	30.6
BH-6	11/1/2017	0-1'	258	3,960	587	4,810	0.0074	0.00699	0.0101	0.0925	0.117	1,790
	"	2'-3'	86.0	790	103	979	-	-	-	-	-	1,490
	"	4'-5'	223	1,090	99.3	1,410	-	-	-	-	-	1,000
	"	6'-7'	326	1,180	72.7	1,580	-	-	-	-	-	1,100
	"	9'-10'	528	3,460	377	4,370	-	-	-	-	-	975
	"	14'-15'	798	3,450	362	4,610	-	-	-	-	-	1,110
	"	19'-20'	235	1,440	147	1,820	-	-	-	-	-	2,590
	"	24'-25'	<14.9	90.3	<14.9	90.3	-	-	-	-	-	3,590
	"	29'-30'	-	-	-	-	-	-	-	-	-	2,200
	"	40.0	-	-	-	-	-	-	-	-	-	1,120
	"	50.0	-	-	-	-	-	-	-	-	-	860
	"	55.0	<15.0	<15.0	<15.0	<15.0	<0.00332	<0.00332	<0.00332	<0.00332	<0.00332	553
Regulatory Criteria ^						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

(BH) - Borehole

- Not Analyzed

Removed

Liner Installed

Initial Delineation from
Work Plan
Marathon Oil
Corporation Warren
State #1
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						
BH-7	11/1/2017	0-1'	418	7,280	1,120	8,820	<0.00201	0.00654	0.0100	0.109	0.125	3,030
	"	2'-3'	54.9	548	76.6	680	-	-	-	-	-	2,980
	"	4'-5'	<15.0	<15.0	<15.0	<15.0	-	-	-	-	-	3,640
	"	6'-7'	-	-	-	-	-	-	-	-	-	1,850
	"	9'-10'	-	-	-	-	-	-	-	-	-	1,080
	"	14'-15'	-	-	-	-	-	-	-	-	-	1,250
	"	19'-20'	-	-	-	-	-	-	-	-	-	1,140
	"	24'-25'	-	-	-	-	-	-	-	-	-	335
	"	29'-30'	-	-	-	-	-	-	-	-	-	147
	"	40.0	<14.9	<14.9	<14.9	<14.9	<0.00330	<0.00330	<0.00330	<0.00330	<0.00330	17.1
BH-8	11/1/2017	0-1'	133	4,480	724	5,340	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	2,630
	"	2'-3'	38.5	595	102	736	-	-	-	-	-	2,400
	"	4'-5'	<15.0	<15.0	<15.0	<15.0	-	-	-	-	-	2,120
	"	6'-7'	-	-	-	-	-	-	-	-	-	824
	"	9'-10'	-	-	-	-	-	-	-	-	-	519
	"	14'-15'	-	-	-	-	-	-	-	-	-	227
	"	19'-20'	-	-	-	-	-	-	-	-	-	141
	"	24'-25'	-	-	-	-	-	-	-	-	-	87
	"	29'-30'	<15.0	<15.0	<15.0	<15.0	<0.00334	<0.00334	<0.00334	<0.00334	<0.00334	38
BH-9	11/1/2017	0-1'	500	6,390	759	7,650	0.00336	0.0454	0.0307	0.210	0.289	4,190
	"	2'-3'	151	586	62.9	800	-	-	-	-	-	2,590
	"	4'-5'	87	386	37	510	-	-	-	-	-	994
	"	6'-7'	<15.0	<15.0	<15.0	<15.0	-	-	-	-	-	1,110
	"	9'-10'	-	-	-	-	-	-	-	-	-	1,220
	"	14'-15'	-	-	-	-	-	-	-	-	-	843
	"	19'-20'	-	-	-	-	-	-	-	-	-	393
	"	24'-25'	-	-	-	-	-	-	-	-	-	289
	"	29'-30'	-	-	-	-	-	-	-	-	-	257
	"	40.0	<15.0	<15.0	<15.0	<15.0	<0.00322	<0.00322	<0.00322	<0.00322	<0.00322	72.1
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

(BH) - Borehole

- Not Analyzed

 Removed Liner Installed

**Table 2: Confirmation
Samples
Marathon Oil Corporation
Warren State #1
Lea County, New Mexico
6' Pasture Area**

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	10/13/2022	6.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	613
CS-2	10/13/2022	6.0	<49.9	299	<49.9	299	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	664
CS-3	10/13/2022	6.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	134
CS-4	10/13/2022	6.0	<49.9	327	<49.9	327	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	120
CS-5	10/13/2022	6.0	158	998	103	1,260	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,700
CS-6	10/13/2022	6.0	91.7	411	<49.9	503	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,560
CS-7	10/13/2022	6.0	<50.0	309	<50.0	309	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	249
CS-8	10/13/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	228
CS-9	10/13/2022	6.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	273
CS-10	10/13/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,390
CS-11	10/13/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	2,090
CS-12	10/13/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,010
CS-13	10/13/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	2,820
CS-14	10/13/2022	6.0	<49.9	70.6	<49.9	70.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,510
CS-15	10/13/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	204
CS-16	10/13/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	350
CS-17	10/13/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	462
CS-18	10/13/2022	6.0	<50.0	59.6	<50.0	59.6	<0.0403	<0.0403	<0.0403	<0.0806	<0.0806	359
CS-19	10/13/2022	6.0	<49.9	406	82.8	489	<0.0199	<0.0199	0.132	0.231	0.363	454
CS-20	10/13/2022	6.0	95.1	90.4	<49.9	186	<0.0200	<0.0200	0.173	0.315	0.488	477
CS-21	10/13/2022	6.0	<49.8	485	<49.8	485	0.225	0.0732	<0.0505	<0.101	0.298	322
CS-22	10/13/2022	6.0	<49.9	468	<49.9	468	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	490
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: Confirmation
Samples
Marathon Oil Corporation
Warren State #1**

**Lea County, New Mexico
6' Pasture Area**

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-23	10/13/2022	6.0	<49.8	61.1	<49.8	61.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	287
CS-24	10/13/2022	6.0	<49.9	67.6	<49.9	67.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	427
CS-25	10/13/2022	6.0	<49.9	2,420	160	2,580	0.204	0.0486	0.177	0.514	0.944	702
CS-26	10/13/2022	6.0	61.4	3,120	215	3,400	0.171	0.0498	0.198	0.812	1.23	783
CS-27	10/13/2022	6.0	110	3,160	216	3,490	0.174	0.0434	0.195	0.942	1.35	531
CS-28	10/13/2022	6.0	143	3,430	234	3,810	0.166	0.0614	0.395	3.09	3.71	533
CS-29	10/13/2022	6.0	<50.0	2,030	149	2,180	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	145
CS-30	10/13/2022	6.0	<49.9	1,950	151	2,100	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	151
CS-31	10/13/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	161
CS-32	10/13/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	140
CS-33	10/13/2022	6.0	<50.0	137	<50.0	137	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,600
CS-34	10/13/2022	6.0	<49.9	129	<49.9	129	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,240
CS-35	10/13/2022	6.0	<50.0	900	66.9	967	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	336
CS-36	10/13/2022	6.0	<50.0	950	71.0	1,020	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	346
CS-37	10/13/2022	6.0	50.9	1,660	115	1,830	<0.00200	<0.00200	0.00996	0.0236	0.0335	235
CS-38	10/13/2022	6.0	59.9	1,910	135	2,100	<0.00201	0.00616	0.00936	0.0214	0.0369	278
CS-39	10/13/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,010
CS-40	10/13/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,220
CS-41	10/13/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	208
CS-42	10/13/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	867
CS-43	10/13/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,180
CS-44	10/13/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	181
CS-45	10/26/2022	6.0	<50.0	73.2	<50.0	73.2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,900
CS-46	10/26/2022	6.0	<49.8	76.4	<49.8	76.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,250
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: Confirmation
Samples
Marathon Oil Corporation
Warren State #1**

**Lea County, New Mexico
6' Pasture Area**

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	10/13/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	110
SW-2	10/13/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	124
SW-3	10/13/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	675
	10/26/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	37.9
SW-4	10/13/2022	6.0	<50.0	125	<50.0	125	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	133
	10/26/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	24.5
SW-5	10/13/2022	6.0	<49.8	334	<49.8	334	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	416
	10/26/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	64.4
SW-6	10/13/2022	6.0	<50.0	64.1	<50.0	64.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,430
	10/26/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	31.8
SW-7	10/13/2022	6.0	<50.0	88.5	<50.0	88.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	113
SW-8	10/13/2022	6.0	<50.0	653	<50.0	653	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	74.8
	10/26/2022	6.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	40.8
SW-9	10/13/2022	6.0	<50.0	617	<50.0	617	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	442
	10/26/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.8
SW-10	10/13/2022	6.0	128	487	<49.9	615	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	224
	10/26/2022	6.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	25.4
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

 Removed

**Table 2: Confirmation
Samples
Marathon Oil Corporation
Warren State #1
Lea County, New Mexico
4' Pad Area**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-47	11/16/2022	4.0	<50.0	389	<50.0	389	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,180
CS-48	11/16/2022	4.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,150
CS-49	11/16/2022	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,170
CS-50	11/16/2022	4.0	<49.9	51.2	<49.9	51.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,390
CS-51	11/16/2022	4.0	<50.0	233	<50.0	233	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,870
CS-52	11/16/2022	4.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	50.1
CS-53	11/16/2022	4.0	<49.9	59.0	<49.9	59.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,430
CS-54	11/16/2022	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	136
CS-55	11/16/2022	4.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,120
CS-56	11/16/2022	4.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,100
SW-11	11/16/2022	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	36.0
SW-12	11/16/2022	4.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	37.8
SW-13	11/16/2022	4.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	89.4
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

(SW) Sidewall Sample

**Table 2: Confirmation
Samples
Marathon Oil Corporation
Warren State #1
Lea County, New Mexico
20' Pad Area**

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-57	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,640
CS-58	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,600
CS-59	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,680
CS-60	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,520
CS-61	11/21/2022	20.0	1,010	4,420	423	5,853	<0.500	2.44	2.63	38.4	43.5	2,440
CS-62	11/21/2022	20.0	721	3,470	311	4,502	<0.500	2.78	2.72	38.9	44.4	2,640
CS-63	11/21/2022	20.0	986	4,230	385	5,601	<0.500	3.48	3.34	47.7	54.6	2,640
CS-64	11/21/2022	20.0	759	3,120	260	4,139	<0.500	3.15	2.94	42.0	48.1	2,600
SW-14	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-15	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-16	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-17	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-18	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-19	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-20	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-21	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
SW-22	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-23	11/21/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
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

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 1****Facility:** Warren State #1**County:** Lea County, New Mexico**Description:**

View East, area of confirmation samples (1 - 46).

**Photograph No. 2****Facility:** Warren State #1**County:** Lea County, New Mexico**Description:**

View Northeast, area of confirmation samples (1 - 46).

**Photograph No. 3****Facility:** Warren State #1**County:** Lea County, New Mexico**Description:**

View Southwest, area of confirmation samples (1 - 46).



PHOTOGRAPHIC LOG

Marathon Oil Corporation

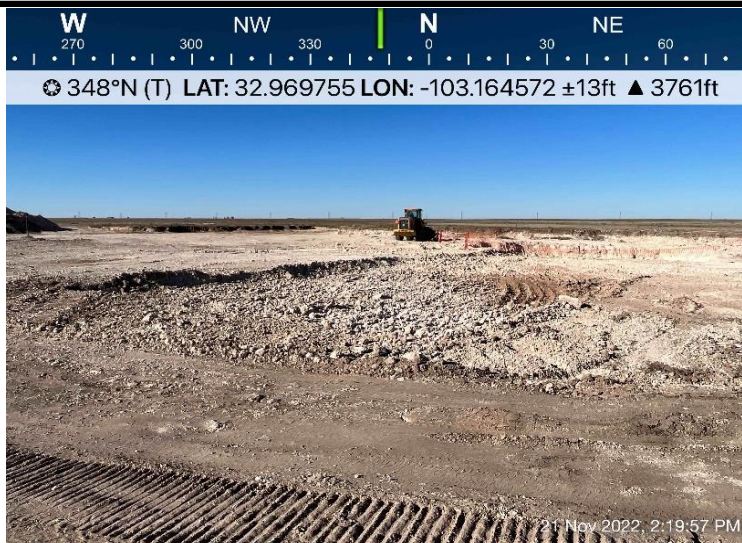
Photograph No. 4

Facility: Warren State #1

County: Lea County, New Mexico

Description:

View Northwest, area of confirmation samples (47 -56).



Photograph No. 5

Facility: Warren State #1

County: Lea County, New Mexico

Description:

View Southwest, area of confirmation samples (47 - 56).



Photograph No. 6

Facility: Warren State #1

County: Lea County, New Mexico

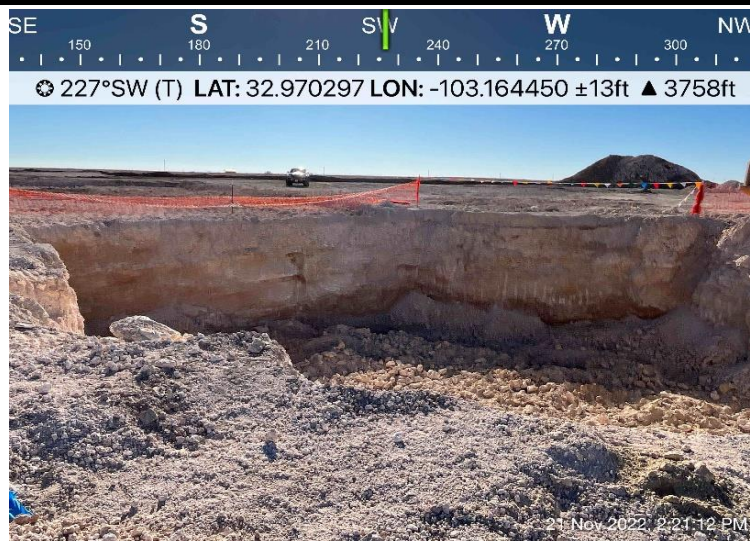
Description:

View Northeast, area of confirmation samples (47 - 56).



PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 7****Facility:** Warren State #1**County:** Lea County, New Mexico**Description:**

View Southwest, area of confirmation samples (57 - 64).

**Photograph No. 8****Facility:** Warren State #1**County:** Lea County, New Mexico**Description:**

View Southeast, area of confirmation samples (57 - 64).

**Photograph No. 9****Facility:** Warren State #1**County:** Lea County, New Mexico**Description:**

View Northeast, area of confirmation samples (57 - 64).



PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 10

Facility: Warren State #1

County: Lea County, New Mexico

Description:

View Northeast, of liner installation at area of confirmation samples (1 - 46).



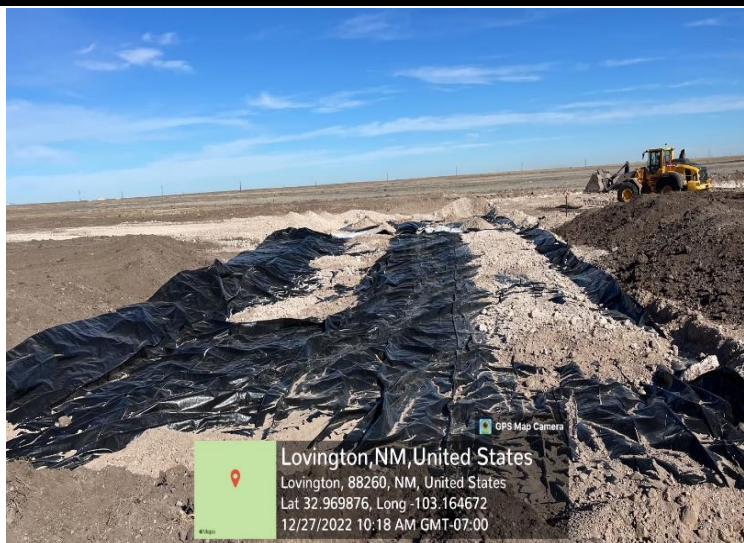
Photograph No. 11

Facility: Warren State #1

County: Lea County, New Mexico

Description:

View Northeast, of liner installation at area of confirmation samples (47 - 56).



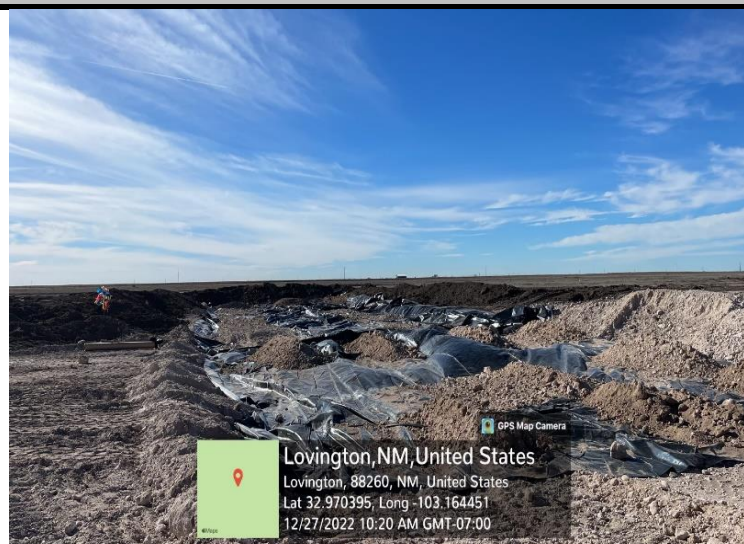
Photograph No. 12

Facility: Warren State #1

County: Lea County, New Mexico

Description:

View Southwest, of liner installation at area of confirmation samples (57 - 64).



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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Marathon Oil Company	Contact Wendy Gram
Address 5555 San Felipe Street, Houston, Texas 77056	Telephone No. 701-690-6519 (cell) 713-296-2862 (office)
Facility Name Warren State #1	Facility Type Producing well
Surface Owner Angell #2 Family LTD Partnership	Mineral Owner The State of New Mexico
API No. 30-025-34034	

LOCATION OF RELEASE

Unit Letter P	Section 35	Township 15S	Range 37E	Feet from the 1,295	North/South Lin South	Feet from the 880	East/West Line East	County Lea
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Latitude 32.9701576 Longitude -103.165047 NAD83

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 200 barrels	Volume Recovered 200 barrels
Source of Release Produced water tank	Date and Hour of Occurrence 6/6/2017	Date and Hour of Discovery 6/6/2017 11 a.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Maxey Brown	
By Whom? Wendy Gram	Date and Hour 6/6/2017 1:44 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
Not applicable.

RECEIVED

By Olivia Yu at 3:54 pm, Jun 19, 2017

Describe Cause of Problem and Remedial Action Taken.*

The high-level switch on the produced water tank at the Warren State #1 well was manually bypassed which did not allow the produced water from the well to be pumped from the tanks to the nearby South Denton 6 State #2 injection well. Both 500-barrel produced water tanks on location were overfilled. The release was to lined secondary containment on location.

Describe Area Affected and Cleanup Action Taken.*

Produced water in the containment area was removed with a vacuum truck and trucked for offsite disposal. The volume of release was based on the amount recovered by the vacuum truck.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Wendy Gram</i>		OIL CONSERVATION DIVISION	
Printed Name: Wendy Gram		Approved by Environmental Specialist: <i>WJ</i>	
Title: Sr. HES Professional		Approval Date: 6/19/2017	Expiration Date:
E-mail Address: wwgram@marathonoil.com		Conditions of Approval:	
Date: June 19, 2017 Phone: 701-690-6519 (cell) 713-296-2862 (office)		Please inspect liner in question. Provide NMOCD with a concise report of the inspection with affirmation the liner has and will continue to contain liquids.	
* Attach Additional Sheets If Necessary		Attached ☐	

pOY1717060702

nOY1717057887

1RP-4732

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Marathon Oil Company	Contact Wendy Gram
Address 5555 San Felipe Street, Houston, Texas 77056	Telephone No. 701-690-6519 (cell) 713-296-2862 (office)
Facility Name Warren State #1	Facility Type Producing well

Surface Owner Angell #2 Family LTD Partnership	Mineral Owner The State of New Mexico	API No.30-025-34034
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LOCATION OF RELEASE

Unit Letter P	Section 35	Township 15S	Range 37E	Feet from the 1,295	North/South Lin South	Feet from the 880	East/West Line East	County Lea
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Latitude 32.9701576 Longitude -103.165047 NAD83

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 1200 barrels	Volume Recovered 200 barrels
Source of Release Produced water tank	Date and Hour of Occurrence 6/8/2017	Date and Hour of Discovery 6/9/2017
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Olivia Yu	
By Whom? Wendy Gram	Date and Hour 6/9/2017 Approximately 5 p.m..	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* Not applicable.		

RECEIVED
By Olivia Yu at 4:48 pm, Jun 26, 2017

RECEIVED

By Olivia Yu at 4:48 pm, Jun 26, 2017

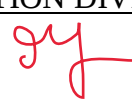
Describe Cause of Problem and Remedial Action Taken.*

A thunderstorm during the evening of June 8, 2017 interfered with the SCADA system. The system showed that the pump which pumped the produced water from the Warren State #1 well to the nearby South Denton 6 State #2 injection well was running when in fact it was not. Both 500-barrel produced water tanks on location were overfilled. The release was to lined secondary containment on location which then overflowed off the pad area into a pasture.

Describe Area Affected and Cleanup Action Taken.*

Produced water in the containment area was removed with a vacuum truck and trucked for offsite disposal. The recovered volume of release was based on the amount recovered by the vacuum truck. Outside the containment area, soil was removed down to a liner that had been placed around the well pad at the request of the land owner after a previous spill. The Warren State #1 well was shut in.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Wendy Gram Signature:	OIL CONSERVATION DIVISION 	
	Approved by Environmental Specialist:	
Printed Name: Wendy Gram		
Title: Sr. HES Professional	Approval Date: 6/26/2017	Expiration Date:
E-mail Address: wwgram@marathonoil.com	Conditions of Approval:	Attached ☒
Date: June 19, 2017 Phone: 701-690-6519 (cell) 713-296-2862 (office)	see attached directive 1RP-4738 nOY1717830382	

pOY1717832324

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: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui Date: _____

Printed Name: _____ Title: _____

Received by OCD: 1/24/2023 1:48:42 PM
From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Tuesday, November 9, 2021 11:54 AM
To: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>
Subject: [External] OCD Request

Beware of links/attachments.

Hello,

I am requesting a compendium/listing of status (closed, ongoing, deferred, under OCD review/submitted etc.) of all locations /incidents on ACO with Marathon and OCD. These are legacy sites that pre-date 8/14/18. Email would be fine, in some variety of spreadsheet, and as soon as you can would be good.

Thank you for your efforts and hope all is well.

Bradford

Bradford Billings • Enviro. Spec. A
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Ave. NE Suite 100 | Albuquerque, NM 87113
505.670.6549. bradford.billings@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

From: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>
Received by OCD: 1/24/2023 1:48:42 PM

Page 33 of 315

Sent: Wednesday, November 10, 2021 11:57 AM

To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>

Subject: [EXTERNAL] RE: OCD Request

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

Mr. Billings,

Hope all is well! Please find the attached tracking sheet for ACO incidents. Please let me know if you would like to chat in any more detail about any of the projects.

Thanks!

Released to Imaging: 2/14/2023 9:28:16 AM

From: Sanjari, Melodie (MRO)

Received by OCD: 1/24/2023 1:48:42 PM

Sent: Wednesday, November 10, 2021 12:21 PM

To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>

Subject: RE: [EXTERNAL] RE: OCD Request

Of course! Have a great day

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>

Sent: Wednesday, November 10, 2021 1:16 PM

To: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>

Subject: RE: [EXTERNAL] RE: OCD Request

Hi,

Thanks much for your time on this, appreciated!

Bradford

Released to Imaging: 2/14/2023 9:28:16 AM

From: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>
Received by OCD: 1/24/2023 1:48:42 PM

Sent: Wednesday, September 28, 2022 8:18 AM

To: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>

Cc: Mike Carmona <Mcarmona@carmonaresources.com>; lupecarrascommx@gmail.com

Subject: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

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

Bradford,

I hope all is well. I'm reaching out to notify you that this week we are beginning work on the Warren State #1 to close out the last remaining incidents on our ACO (1RP-4732 & 1RP-4738) that were part of a confidential settlement. The remediation detailed in the attached workplan will be completed in tandem with reclamation of the site itself.

Once we begin to work on the 4', 6' and 20' excavations, we will send another notifying email estimating time of the final samples to be collected. As the approved work plan states, those depths will not be exceeded, but there is potential for the lateral extents to extend. This project is expected to take several weeks but I'm happy to provide updates as frequently as you'd like them.

As this workplan was approved prior to the new rule but we want to ensure that closure is achieved without the need to return, we would prefer as much open communication on this project as possible instead of after the fact. Having that said, we would like to request a variance for final sampling frequency to be representative of every 500 ft² instead of 200ft².

Please let me know your thoughts as we work toward closure of these incidents. The final report will be submitted via CentreStack in alignment with the rest of our ACO.

Thank you

Melodie Sanjari

Environmental Professional

Permian & Oklahoma

Released to Imaging: 2/14/2023 9:28:16 AM

575-988-8753

From: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>
Received by OCD: 1/24/2023 1:48:42 PM
Sent: Wednesday, September 28, 2022 9:42:39 AM
To: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; lupecarrascommx@gmail.com <lupecarrascommx@gmail.com>
Subject: RE: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

Hello,

See below for comments/conditions:

Thanks for the notification, please include this communication in allied report(s).

Every few days to weekly would be good for updates, unless something untoward happens.

Marathon would have to support the request for the alternative sampling frequency before a response from OCD on the request. Email communication with data and figures would be acceptable.

When submitting FINAL please include a copy of approved work plan.

All reports need to be submitted to OCD Pay Portal. CentreStack is not used for this anymore.

Thank you for your efforts.

Bradford Billings
EMNRD/OCD

From: Mike Carmona <Mcarmona@carmonaresources.com>
Received by OCD: 1/24/2023 1:48:42 PM

Sent: Thursday, September 29, 2022 10:05 AM

To: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>

Cc: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>; lupecarrascommx@gmail.com; Clint Merritt <MerrittC@carmonaresources.com>

Subject: RE: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

Brad,

This Variance Request is sent on behalf of Marathon Oil Company for the Warren State 1RP-4732 & 1RP-4738. As the execution of the remediation of these two open incidents will be conducted in tandem with the site's reclamation, both of which were agreed upon during a private settlement with the landowner, Marathon is wanting to have as much open communication as possible on this project before the excavation begins and before the samples are taken to ensure alignment with the Division. It is my understanding that because the work plan was approved prior to the new spill rule, the 200 sqft language in 19.15.29.12(D)(1)(c) is not a requirement, and we would default to the previous spill rule, which did not have specific stipulations for sampling frequency. We are just wanting to receive confirmation of a previously agreed-upon number of samples along with the scope of work now instead of discussing it when the liner is placed, and the hole is closed.

Alternative Sampling Plan Variance per 19.15.29.14. A NMAC

This email has been prepared to request an alternative sampling plan to collect 5-point composite soil samples representing every 1,000 sq. ft at the Marathon Oil/Warren State #1 release. Once we are ready to collect the final samples, you will be notified. The request for an alternative sampling plan is based on the release size and a substantially lesser amount of confirmation samples taken, resulting in the base and walls of the excavation being completely represented. We believe that ~200 samples of the excavated area would provide sufficient data showing that the horizontal extents meet closure criteria and document the base of the excavations at their pre-designated depths. Based on the final dimensions, the lateral extents are subject to change; the excavation depths will not exceed the depths of 4.0', 6.0', and 20.0' excavation depths per the approved work plan. Collecting 1000 samples would not only impact the timeline of the remediation by collection and analysis but would not result in an increased level of representation in terms of standard deviation.

- 1,000 sq. ft- approximately **195** confirmation bottom floor samples and sidewalls.
- 200 sq. ft- approximately **920** confirmation bottom floor samples and sidewalls.

Mike J. Carmona
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com

CARMONA RESOURCES



From: [Billings, Bradford, EMNRD](#)

Received by OCD: 1/24/2023 1:48:42 PM

Sent: Thursday, September 29, 2022 3:44 PM

To: [Mike Carmona](#)

Cc: [Sanjari, Melodie \(MRO\)](#); lupecarrascommx@gmail.com; [Clint Merritt](#)

Subject: RE: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

Hell.

Please keep a copy of this communication and include it in allied report(s).

Variance request on sampling at 1,000 sq.ft. is denied, however, OCD will allow for and approve a 500 sq.ft. interval in this particular instance.

Thank you for your efforts. Email if there are questions.

Yours

Bradford Billings

Released to Imaging: 2/14/2023 9:28:16 AM

From: Clint Merritt <MerrittC@carmonaresources.com>

Sent: Tuesday, October 11, 2022 5:18 AM
Received by OGD: 1/24/2023 1:48:42 PM

To: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>

Cc: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>; lupecarrascommx@gmail.com; Mike Carmona <Mcarmona@carmonaresources.com>

Subject: RE: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

Good Morning Brad,

On behalf of Marathon Oil Corporation, Carmona Resources will collect 500 sq ft composite confirmation samples at the below-referenced site on Thursday, 10/13/2022, around 12:00 p.m. Mountain Time and continue to collect on 10/14/2022. Please let me know if you have any questions.

Warren State #1

Sec 35 T15S R37E Unit P

API No. 30-025-34034

1RP-4738 & 1RP-4732

32. 9701576°, -103.165047°

Lea County, New Mexico

Clinton Merritt

310 West Wall Street, Suite 415

Midland TX, 79701

M: 432-813-9044

MerrittC@carmonaresources.com

CARMONA RESOURCES



From: [Billings, Bradford, EMNRD](#)
Received by OCD: 1/24/2023 1:48:42 PM
Sent: Thursday, October 20, 2022 4:24 PM

Page 40 of 315

To: [Clint Merritt](#)

Subject: RE: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

Hello,

Sorry I was on vacation. As long as the rule 29 is met and hopefully the 500 sqft confirmation samples will do it.

Thank you for the notification. Please include copy of this communication in allied report(S).

Bradford Billings
EMNRD/OCD

Released to Imaging: 2/14/2023 9:28:16 AM

From: Clint Merritt <MerrittC@carmonaresources.com>
Received by OCD: 1/24/2023 1:48:42 PM
Sent: Monday, November 14, 2022 11:04 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>
Cc: Melodie Sanjari <msanjari@marathonoil.com>; lupecarrascommx@gmail.com; Mike Carmona <Mcarmona@carmonaresources.com>
Subject: RE: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

Good Morning Brad,

On behalf of Marathon Oil Corporation, Carmona Resources will collect 500 sq ft composite confirmation samples at the below-referenced site on Wednesday, 11/16/2022, around 12:00 p.m. Mountain Time. Please let me know if you have any questions.

Warren State #1
Sec 35 T15S R37E Unit P
API No. 30-025-34034
1RP-4738 & 1RP-4732
32. 9701576°, -103.165047

Clinton Merritt
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-9044
MerrittC@carmonaresources.com

CARMONA RESOURCES



From: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>

Received by OCD: 1/24/2023 1:48:42 PM
Sent: Monday, November 14, 2022 12:13:21 PM

Page 42 of 315

To: Clint Merritt <MerrittC@carmonaresources.com>

Subject: RE: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

Thank you, and as usual, please keep a copy of this communication and incorporate it into allied report(s).

Bradford Billings

EMNRD/OCD
Released to Imaging: 2/14/2023 9:28:16 AM

From: Clint Merritt <MerrittC@carmonaresources.com>
Received by OCD: 1/24/2023 1:48:42 PM

Sent: Thursday, November 17, 2022 1:13:00 PM

To: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>

Cc: Melodie Sanjari <msanjari@marathonoil.com>; lupecarrascommx@gmail.com <lupecarrascommx@gmail.com>; Mike Carmona <Mcarmona@carmonaresources.com>

Subject: RE: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

Good Afternoon Brad,

On behalf of Marathon Oil Corporation, Carmona Resources will collect 500 sq ft composite confirmation samples at the below-referenced site on Monday, 11/21/2022, around 1:00 p.m. Mountain Time.

Please let me know if you have any questions.

Thank you

Warren State #1
Sec 35 T15S R37E Unit P
API No. 30-025-34034
1RP-4738 & 1RP-4732
32. 9701576°, -103.165047

Clinton Merritt
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-9044
MerrittC@carmonaresources.com

CARMONA RESOURCES



From: Clint Merritt <MerrittC@carmonaresources.com>
Received by QCD: 1/24/2023 1:48:42 PM

Sent: Monday, November 28, 2022 12:25:37 PM

To: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>

Cc: Melodie Sanjari <msanjari@marathonoil.com>; lupecarrascommx@gmail.com <lupecarrascommx@gmail.com>; Mike Carmona <Mcarmona@carmonaresources.com>

Subject: RE: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

Good Morning Brad,

Attached is:

- An overview map of the excavation for the 4' portion on the pad with sample points
- An overview map of the excavation for the 20' portion on the pad with sample points
- An overview map of the excavation for the 6' portion in the pasture area with sample points
- Tables with all sample results

If all data is acceptable as per approved work plan on June 4, 2018 Marathon Oil Corp. formally requests to backfill the areas of 20', 6', and 4'. As per approved work plan, a liner will be installed in the 20' and 4' area at 4' bgs. Additionally, a liner will be installed in the 6' area at 6' bgs.

If you have any questions, or need clarification please feel free to reach out at any time.

Thank you

Clinton Merritt
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-9044
MerrittC@carmonaresources.com

CARMONA RESOURCES



From: Clint Merritt <MerrittC@carmonaresources.com>
Received by OCD: 1/24/2023 1:48:42 PM

Sent: Wednesday, December 7, 2022 1:01 PM

To: Brittany.Hall@embrd.nm.gov

Cc: Melodie Sanjari <msanjari@marathonoil.com>; Mike Carmona <Mcarmona@carmonaresources.com>; Conner Moehring <Cmoehring@carmonaresources.com>; lupecarrascommx@gmail.com; Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>

Subject: FW: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

Good morning Brittany,

Attached is:

- An overview map of the excavation for the 4' portion on the pad with sample points
- An overview map of the excavation for the 20' portion on the pad with sample points
- An overview map of the excavation for the 6' portion in the pasture area with sample points
- Tables with all sample results

I am emailing you this morning in regards to the above mentioned site on behalf of Marathon Oil Corp. All correspondence has been through Mr. Brad Billings for this project. Below are the associated 48 hour sampling notifications for confirmation sampling, as well as the approved variance request to conduct sampling every 500 sq ft. Marathon has completed excavations and confirmation sampling for all areas under OCD jurisdiction, and we are requesting permission to backfill the areas of the attached maps.

If you have any questions, or need clarification please do not hesitate to reach out or give me a call.

Thank you

Clinton Merritt
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-9044
MerrittC@carmonaresources.com

CARMONA RESOURCES



Received by OCD: 1/24/2023 1:48:42 PM
From: Harimon, Jocelyn, EMNRD <jocelyn.Harimon@emnrd.nm.gov>

Sent: Tuesday, December 20, 2022 12:30 PM

To: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>; Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>; MerrittC@carmonaresources.com; Mike Carmona <Mcarmona@carmonaresources.com>; lupecarrascommx@gmail.com

Subject: RE: [EXTERNAL] Marathon Oil Company - Warren State 1RP-4732 & 1RP-4738 - Notification & Variance Request

All,

The OCD approves the request to backfill at this time, provided all of the requirements of the OCD approved workplan have been met and, as discussed, with the approval of the landowner. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn Harimon

Released to Imaging: 2/14/2023 9:28:16 AM

APPENDIX D

CARMONA RESOURCES

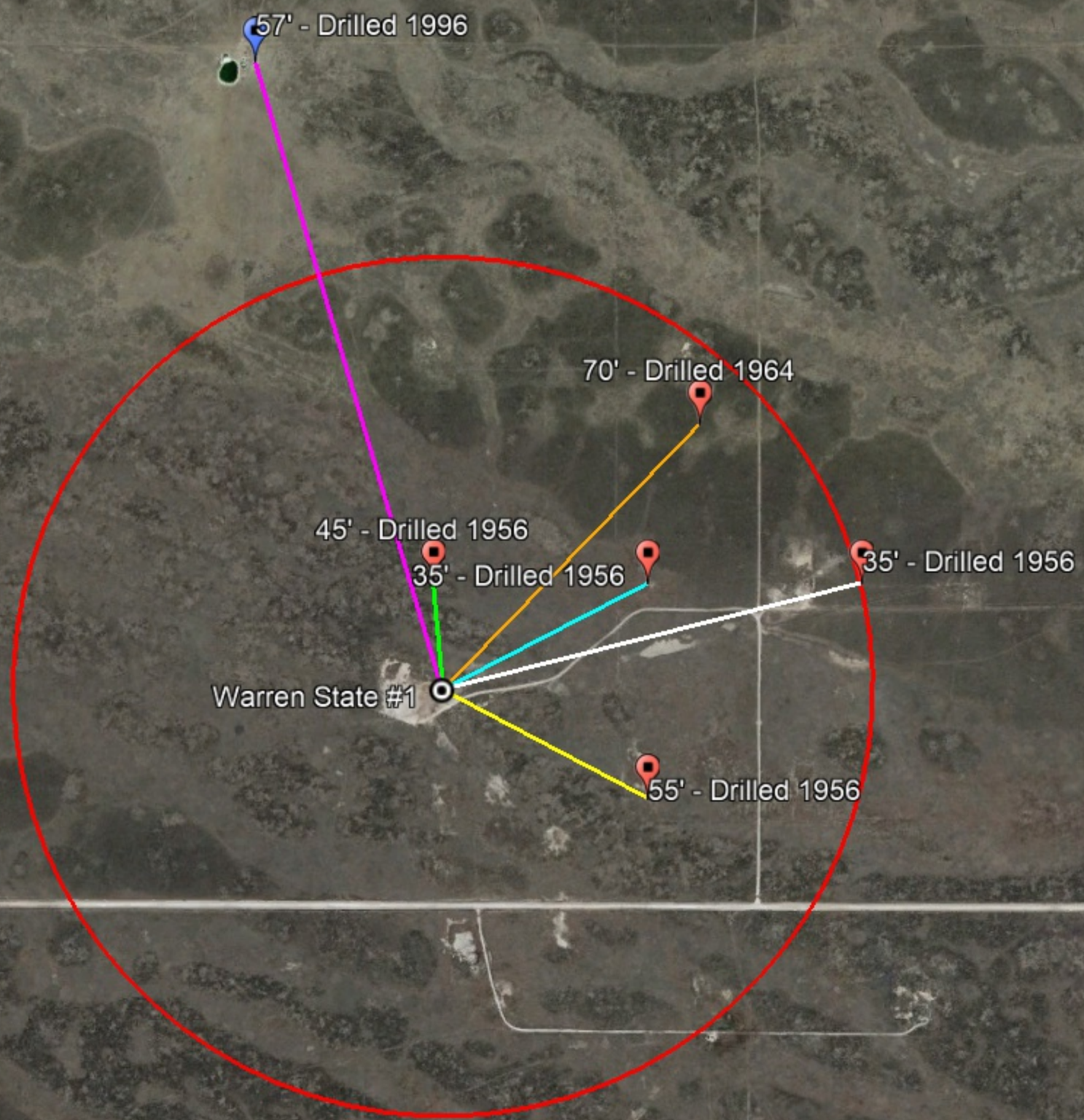


Marathon Oil

Nearest Water Well

Legend

- 0.12 Miles
- 0.27 Miles
- 0.27 Miles
- 0.43 Miles
- 0.50 Mile Radius
- 0.51 Miles
- 0.78 Miles
- NMSEO Water Well
- USGS Water Well
- Warren State #1



Marathon Oil

Low Karst

Legend

- Low
- Warren State #1

Warren State #1





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 03240	L	LE		2	4	35	15S	37E		671534	3649681*	198	120	45	75
L 03207	L	LE		1	3	36	15S	37E		671937	3649687*	431	105	35	70
L 03099	L	LE		3	3	36	15S	37E		671944	3649285*	436	120	55	65
L 05455	L	LE		4	3	1	36	15S	37E	672030	3649988*	691	125	70	55
L 03316	L	LE		2	3	36	15S	37E		672340	3649694*	811	124	35	89
L 07456	L	LE		2	2	3	36	15S	37E	672439	3649793*	935	126	32	94
L 03143	L	LE		2	2	05	16S	38E		671710	3647943*	1548	120	30	90
L 03255	L	LE		2	2	05	16S	38E		671710	3647943*	1548	120	30	90
L 03193	L	LE		1	1	04	16S	38E		672112	3647949*	1632	120	35	85
L 10220	L	LE		4	2	34	15S	37E		669916	3650059*	1737	95	58	37
L 01379	L	LE		2	2	34	15S	37E		669909	3650462*	1915	120	32	88
L 15355 POD1	L	LE		3	1	1	31	15S	38E	673376	3650386	2031	200		
L 00232	L	LE		1	3	4	34	15S	37E	669428	3649347*	2132	122		
L 00513	L	LE					05	16S	38E	671127	3647318*	2208	220	90	130
L 08723	L	LE					05	16S	38E	671127	3647318*	2208	102	62	40
L 07981	L	LE		4	4	1	26	15S	37E	670793	3651580*	2230	142	70	72
L 04175	L	LE					34	15S	37E	669327	3649838*	2256	100	80	20
L 00459	R	L	LE	3	1	2	34	15S	37E	669405	3650355*	2320	140		
L 00459 S	R	L	LE	1	1	2	34	15S	37E	669405	3650555*	2402	146	67	79
L 14185 POD1	L	LE		2	4	1	25	15S	37E	672330	3651781	2424	237	61	176
L 02923	L	LE					04	16S	38E	672736	3647343*	2444	125	30	95
L 07579	L	LE		2	2	4	27	15S	37E	669994	3651366*	2445		44	
L 00459 POD4	L	LE		3	1	2	34	15S	37E	669339	3650589	2477	241	110	131
L 05825 S	L	LE		1	4	1	26	15S	37E	670593	3651780*	2489	130	60	70
L 07666	L	LE		4	4	2	27	15S	37E	669986	3651568*	2609	126	60	66
L 10215	L	LE		4	2	04	16S	38E		673326	3647564*	2611	75	60	15

*UTM location was derived from PLSS - see Help

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POD suffix indicates the
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(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 05541	L	LE		1	1	25	15S	37E		671897	3652100*	2638	115	40	75
L 10216	L	LE		1	1	03	16S	38E		673721	3647973*	2640	65	50	15
L 04200	L	LE		3	3	34	15S	37E		668724	3649235*	2842			
L 04655	L	LE		1	1	3	34	15S	37E	668615	3649737*	2951	95	56	39
L 05587 POD2	L	LE		1	1	4	27	15S	37E	669337	3651445	2961	190	100	90
L 05206	L	LE				06	16S	38E		669557	3647294*	2965	120	87	33
L 00456	L	LE		3	3	1	34	15S	37E	668607	3649940*	2984	116	70	46
L 08411	L	LE		3	1	1	34	15S	37E	668600	3650342*	3077	105		
L 12064 POD1	L	LE		1	2	2	01	16S	37E	668399	3648897	3210	150	90	60
L 00310	L	LE		1	2	2	27	15S	37E	669779	3652171*	3221	140	72	68
L 00759 S5	L	LE		4	4	4	28	15S	37E	668340	3650720	3445	230	110	120
L 01424	L	LE		3	1	2	09	16S	38E	672842	3646247*	3483	150	52	98
L 11672	L	LE		2	2	2	31	15S	38E	674846	3650634*	3485	155		
L 00514	L	LE				03	16S	38E		674345	3647366*	3502	130		
L 05348	L	LE		4	2	08	16S	38E		671742	3645927*	3561	106	65	41
L 09867	L	LE		3	2	08	16S	38E		671340	3645921*	3569	138	85	53
L 00165 POD2	L	LE		2	1	27	15S	37E		669074	3652060*	3577	224	95	129
L 05331	L	LE		2	1	27	15S	37E		669074	3652060*	3577	100	60	40
L 03466	L	LE		2	2	09	16S	38E		673346	3646354*	3605	110	56	54
L 00185	L	LE		3	3	1	27	15S	37E	668577	3651550*	3625	111	68	43
L 00994 POD1	L	LE		3	3	1	27	15S	37E	668577	3651550*	3625	77		
L 00446 S	L	LE		3	2	28	15S	37E		668188	3650894	3651	230	100	130
L 07613	L	LE				23	15S	37E		670879	3653083*	3662	96	45	51
L 01706	L	LE		1	1	1	10	16S	38E	673647	3646459*	3677	150	25	125
L 14184 POD1	L	LE		3	3	3	29	15S	38E	675023	3650750	3691	250	44	206
L 05825 S2	L	LE				4	22	15S	37E	669671	3652669*	3700	160	40	120
L 14423 POD1	L	LE		3	3	1	27	15S	37E	668529	3651623	3706	180	106	74
L 00598 S	L	LE		1	3	4	33	15S	37E	667816	3649322*	3743	100		
L 04590	L	LE				2	07	16S	38E	669931	3646097*	3756	150	114	36

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 02468	L	LE		2	4	22	15S	37E		669866	3652877*	3790	100	40	60
L 00759 S2	L	LE			4	28	15S	37E		668087	3651035*	3799	177	98	79
L 00716	R	L	LE		1	01	16S	37E		667953	3648100	3859	253	105	148
L 09968 POD2	L	LE				09	16S	38E		672760	3645729*	3943	160	70	90
L 05825	L	LE		1	4	22	15S	37E		669462	3652871*	3982	148	45	103
L 00597 S	L	LE		2	2	1	33	15S	37E	667687	3650449	3987	240	100	140

Average Depth to Water: **64 feet**

Minimum Depth: **25 feet**

Maximum Depth: **114 feet**

Record Count: 61

UTM NAD83 Radius Search (in meters):

Easting (X): 671556

Northing (Y): 3649484

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.

12/9/22 8:22 AM

Page 3 of 3

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
L	03240		2	4	35	15S	37E	671534	3649681*				
x													
Driller License:		46		Driller Company:			ABBOTT BROTHERS COMPANY						
Driller Name:		ABBOTT, MURRELL											
Drill Start Date:		07/05/1956			Drill Finish Date:			07/05/1956		Plug Date:		12/19/1956	
Log File Date:		07/18/1956			PCW Rcv Date:			07/18/1956		Source:		Shallow	
Pump Type:					Pipe Discharge Size:					Estimated Yield:			
Casing Size:					Depth Well:			120 feet		Depth Water:		45 feet	
x													
Water Bearing Stratifications:					Top	Bottom	Description						
					45	120	Sandstone/Gravel/Conglomerate						
x													

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	03207		1	3	36	15S	37E	671937	3649687*
Driller License: 90		Driller Company:		BETHEL & MATTHEWS					
Driller Name: BETHEL, H.R.									
Drill Start Date: 05/17/1956		Drill Finish Date:		05/18/1956		Plug Date:			
Log File Date: 05/21/1956		PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:		105 feet		Depth Water:		35 feet	
Water Bearing Stratifications:		Top	Bottom	Description					
		35	105	Sandstone/Gravel/Conglomerate					
Casing Perforations:		Top	Bottom						
		60	105						

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12/9/22 8:30 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
L	03099		3	3	36	15S	37E	671944	3649285*		
x											
Driller License:		46	Driller Company:			ABBOTT BROTHERS COMPANY					
Driller Name:		MURRELL ABBOTT									
Drill Start Date:		01/30/1956	Drill Finish Date:			01/30/1956		Plug Date:		09/17/1956	
Log File Date:		02/02/1956	PCW Rcv Date:			02/02/1956		Source:		Shallow	
Pump Type:		Pipe Discharge Size:			Estimated Yield:						
Casing Size:		Depth Well:			120 feet		Depth Water:		55 feet		
x											
Water Bearing Stratifications:					Top	Bottom	Description				
					55	120	Sandstone/Gravel/Conglomerate				
x											

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y			
L	05455	4	3	1	36	15S	37E	672030	3649988*			
x												
Driller License:		46		Driller Company:			ABBOTT BROTHERS COMPANY					
Driller Name:		ABBOTT, MURRELL										
Drill Start Date:		08/13/1964			Drill Finish Date:			08/14/1964		Plug Date:		09/09/1965
Log File Date:		12/16/1965			PCW Rev Date:					Source:		Shallow
Pump Type:					Pipe Discharge Size:					Estimated Yield:		
Casing Size:		7.00			Depth Well:			125 feet		Depth Water:		70 feet
x												
Water Bearing Stratifications:				Top		Bottom		Description				
				70		125		Other/Unknown				
x												
Casing Perforations:				Top		Bottom						
				70		125						
x												

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

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

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	03316		2	3	36	15S	37E	672340	3649694*

Driller License: 90

Driller Company: BETHEL & MATTHEWS

Driller Name: BETHEL, H.R.

Drill Start Date: 09/24/1956

Drill Finish Date: 09/25/1956

Plug Date: 11/15/1956

Log File Date: 10/01/1956

PCW Rev Date: 10/01/1956

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 124 feet

Depth Water: 35 feet

Water Bearing Stratifications:

Top	Bottom	Description
60	124	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
84	124

*UTM location was derived from PLSS - see Help

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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	? S
				Groundwater	New Mexico	GO	

Click to hide News Bulletins

- See the [Water Data for the Nation Blog](#) for the latest news and updates.

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 325839103095201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 325839103095201 15S.37E.35.212112

Lea County, New Mexico

Latitude 32°58'51", Longitude 103°10'05" NAD27

Land-surface elevation 3,766.40 feet above NGVD29

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1966-03-01		D	62610		3724.54	NGVD29	P		Z	
1966-03-01		D	62611		3725.81	NAVD88	P		Z	
1966-03-01		D	72019	41.86			P		Z	
1971-02-24		D	62610		3724.42	NGVD29	1		Z	
1971-02-24		D	62611		3725.69	NAVD88	1		Z	
1971-02-24		D	72019	41.98			1		Z	
1976-03-24		D	62610		3717.35	NGVD29	P		Z	
1976-03-24		D	62611		3718.62	NAVD88	P		Z	
1976-03-24		D	72019	49.05			P		Z	
1981-01-09		D	62610		3716.84	NGVD29	1		Z	
1981-01-09		D	62611		3718.11	NAVD88	1		Z	
1981-01-09		D	72019	49.56			1		Z	
1986-02-20		D	62610		3712.38	NGVD29	1		Z	
1986-02-20		D	62611		3713.65	NAVD88	1		Z	
1986-02-20		D	72019	54.02			1		Z	
1991-03-14		D	62610		3710.22	NGVD29	1		Z	

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	? S
1991-03-14	D	62611	3711.49	NAVD88	1	Z	
1991-03-14	D	72019	56.18		1	Z	
1996-03-21	D	62610	3709.40	NGVD29	1	S	
1996-03-21	D	62611	3710.67	NAVD88	1	S	
1996-03-21	D	72019	57.00		1	S	

Explanation

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

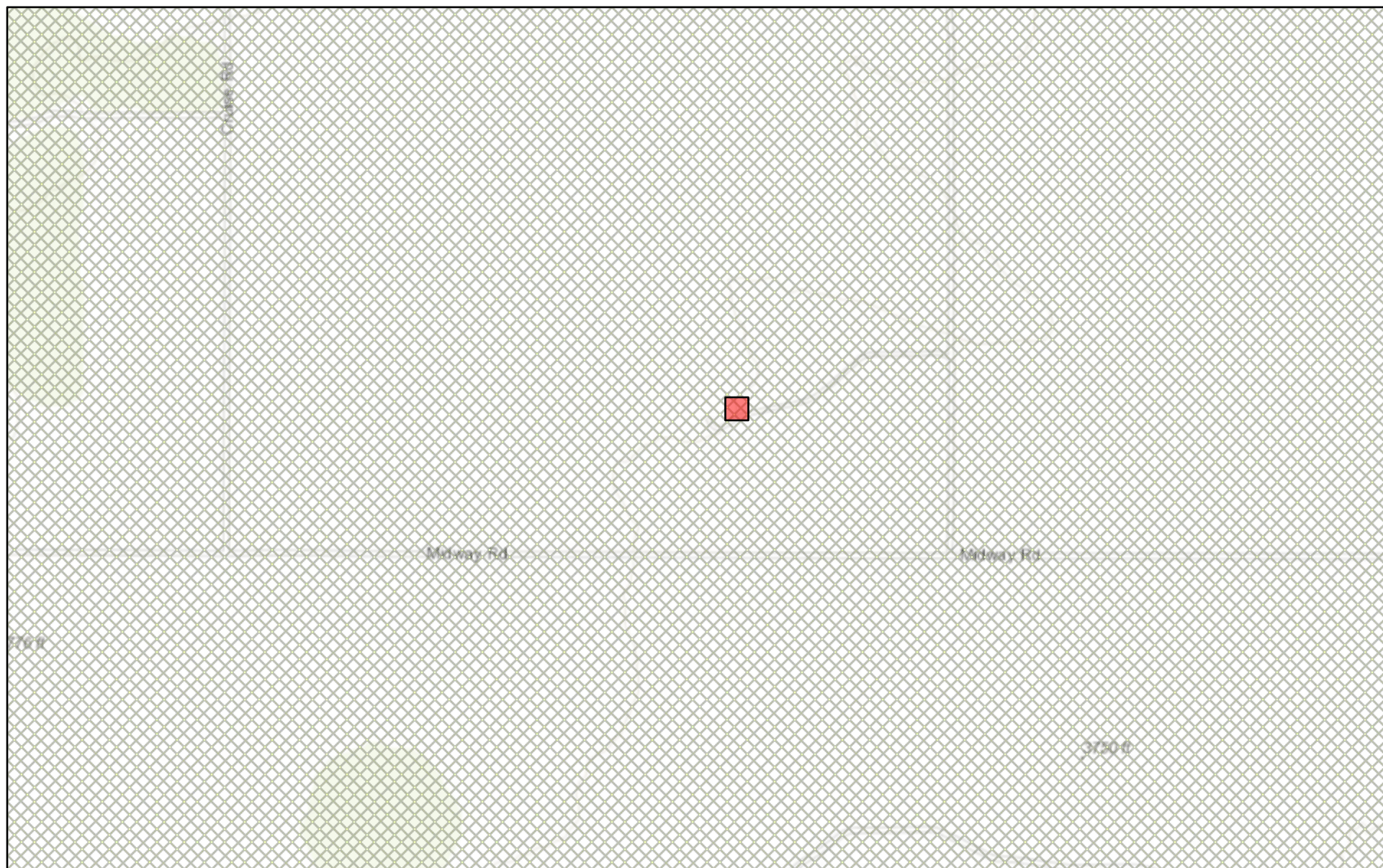
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/>

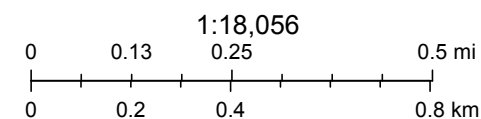


Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2022-12-09 10:39:20 EST
0.28 0.24 nadww02

New Mexico NFHL Data



December 9, 2022



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

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APPENDIX E

CARMONA RESOURCES



Analytical Report 568179

for
Tetra Tech- Midland

Project Manager: Ike Tavaréz

Marathon

Warren State #1

03-DEC-17

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):

Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



03-DEC-17

Project Manager: **Ike Tavaréz**

Tetra Tech- Midland

4000 N. Big Spring Suite 401

Midland, TX 79705

Reference: XENCO Report No(s): **568179**

Marathon

Project Address: Lea Co, NM

Ike Tavaréz:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 568179. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 568179 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink, appearing to read 'Mike Kimmel', is written over a horizontal line.

Mike Kimmel

Client Services Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Sample Cross Reference 568179

Tetra Tech- Midland, Midland, TX

Marathon

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH #1 (0-1') 2'BEB	S	11-07-17 00:00		568179-001
BH #1 (2-3') 2'BEB	S	11-07-17 00:00		568179-002
BH #1 (4-5') 2'BEB	S	11-07-17 00:00		568179-003
BH #1 (6-7') 2'BEB	S	11-07-17 00:00		568179-004
BH #1 (9-10') 2'BEB	S	11-07-17 00:00		568179-005
BH #1 (14-15') 2'BEB	S	11-07-17 00:00		568179-006
BH #1 (19-20') 2'BEB	S	11-07-17 00:00		568179-007
BH #1 (24-25') 2'BEB	S	11-07-17 00:00		568179-008
BH #1 (29-30') 2'BEB	S	11-07-17 00:00		568179-009
BH #1 (34-35') 2'BEB	S	11-07-17 00:00		568179-010
BH #1 (39-40') 2'BEB	S	11-07-17 00:00		568179-011
BH #1 (44-45') 2'BEB	S	11-07-17 00:00		568179-012
BH #1 (50') 2'BEB	S	11-07-17 00:00		568179-013
BH #2 (0-1')	S	11-07-17 00:00		568179-014
BH #2 (2-3')	S	11-07-17 00:00		568179-015
BH #2 (4-5')	S	11-07-17 00:00		568179-016
BH#2 (6-7')	S	11-07-17 00:00		568179-017
BH #2 (9-10')	S	11-07-17 00:00		568179-018
BH #2 (14-15')	S	11-07-17 00:00		568179-019
BH #2 (19-20')	S	11-07-17 00:00		568179-020
BH #2 (24-25')	S	11-07-17 00:00		568179-021
BH #2 (30')	S	11-07-17 00:00		568179-022
BH #2 (40')	S	11-07-17 00:00		568179-023
BH #3 (0-1') 1.5'BEB	S	11-07-17 00:00		568179-025
BH #3 (2-3') 1.5'BEB	S	11-07-17 00:00		568179-026
BH #3 (4-5') 1.5'BEB	S	11-07-17 00:00		568179-027
BH #3 (6-7') 1.5'BEB	S	11-07-17 00:00		568179-028
BH #3 (9-10') 1.5'BEB	S	11-07-17 00:00		568179-029
BH #3 (14-15') 1.5'BEB	S	11-07-17 00:00		568179-030
BH #3 (19-20') 1.5'BEB	S	11-07-17 00:00		568179-031
BH #3 (24-25') 1.5'BEB	S	11-07-17 00:00		568179-032
BH #3 (29-30') 1.5'BEB	S	11-07-17 00:00		568179-033
BH #4 (0-1') 1.5'BEB	S	11-09-17 00:00		568179-036
BH #4 (2-3') 1.5'BEB	S	11-09-17 00:00		568179-037
BH #4 (4-5') 1.5'BEB	S	11-09-17 00:00		568179-038
BH #4 (6-7') 1.5'BEB	S	11-09-17 00:00		568179-039
BH #4 (9-10') 1.5'BEB	S	11-09-17 00:00		568179-040
BH #4 (14-15') 1.5'BEB	S	11-09-17 00:00		568179-041
BH #4 (19-20') 1.5'BEB	S	11-09-17 00:00		568179-042
BH #5 (0-1')	S	11-09-17 00:00		568179-043
BH #5 (2-3')	S	11-09-17 00:00		568179-044
BH #5 (4-5')	S	11-09-17 00:00		568179-045
BH #5 (6-7')	S	11-09-17 00:00		568179-046

Version: 1.0%



Sample Cross Reference 568179

Tetra Tech- Midland, Midland, TX

Marathon

BH #5 (9-10')	S	11-09-17 00:00	568179-047
BH #5 (14-15')	S	11-09-17 00:00	568179-048
BH #5 (19-20')	S	11-09-17 00:00	568179-049
BH #5 (24-25')	S	11-09-17 00:00	568179-050
BH #6 (0-1')	S	11-09-17 00:00	568179-051
BH #6 (2-3')	S	11-09-17 00:00	568179-052
BH #6 (4-5')	S	11-09-17 00:00	568179-053
BH #6 (6-7')	S	11-09-17 00:00	568179-054
BH #6 (9-10')	S	11-09-17 00:00	568179-055
BH #6 (14-15')	S	11-09-17 00:00	568179-056
BH #6 (19-20')	S	11-09-17 00:00	568179-057
BH #6 (24-25')	S	11-09-17 00:00	568179-058
BH #6 (29-30')	S	11-09-17 00:00	568179-059
BH #6 (40')	S	11-09-17 00:00	568179-060
BH #6 (50')	S	11-09-17 00:00	568179-061
BH #6 (55')	S	11-09-17 00:00	568179-062
BH #7 (0-1')	S	11-09-17 00:00	568179-063
BH #7 (2-3')	S	11-09-17 00:00	568179-064
BH #7 (4-5')	S	11-09-17 00:00	568179-065
BH #7 (6-7')	S	11-09-17 00:00	568179-066
BH #7 (9-10')	S	11-09-17 00:00	568179-067
BH #7 (14-15')	S	11-09-17 00:00	568179-068
BH #7 (19-20')	S	11-09-17 00:00	568179-069
BH #7 (24-25')	S	11-09-17 00:00	568179-070
BH #7 (29-30')	S	11-09-17 00:00	568179-071
BH #7 (40')	S	11-09-17 00:00	568179-072
BH #8 (0-1')	S	11-09-17 00:00	568179-073
BH #8 (2-3')	S	11-09-17 00:00	568179-074
BH #8 (4-5')	S	11-09-17 00:00	568179-075
BH #8 (6-7')	S	11-09-17 00:00	568179-076
BH #8 (9-10')	S	11-09-17 00:00	568179-077
BH #8 (14-15')	S	11-09-17 00:00	568179-078
BH #8 (19-20')	S	11-09-17 00:00	568179-079
BH #8 (24-25')	S	11-09-17 00:00	568179-080
BH #8 (29-30')	S	11-09-17 00:00	568179-081
BH #9 (0-1')	S	11-09-17 00:00	568179-082
BH #9 (2-3')	S	11-09-17 00:00	568179-083
BH #9 (4-5')	S	11-09-17 00:00	568179-084
BH #9 (6-7')	S	11-09-17 00:00	568179-085
BH #9 (9-10')	S	11-09-17 00:00	568179-086
BH #9 (14-15')	S	11-09-17 00:00	568179-087
BH #9 (19-20')	S	11-09-17 00:00	568179-088
BH #9 (24-25')	S	11-09-17 00:00	568179-089
BH #9 (29-30')	S	11-09-17 00:00	568179-090

Version: 1.0%

**Sample Cross Reference 568179****Tetra Tech- Midland, Midland, TX**

Marathon

BH #9 (40')	S	11-09-17 00:00	568179-091
BH #2 (50')	S	11-07-17 00:00	Not Analyzed
BH #3 (40') 1.5'BEB	S	11-07-17 00:00	Not Analyzed
BH #3 (50') 1.5'BEB	S	11-07-17 00:00	Not Analyzed
BH #9 (50')	S	11-09-17 00:00	Not Analyzed

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Marathon**

Project ID: Warren State #1
Work Order Number(s): 568179

Report Date: 03-DEC-17
Date Received: 11/13/2017

Sample receipt non conformances and comments:

11/21/2017: Revised report to add 2'-3' depths of BH-1,BH-2,BH-6,BH-7,BH-8, and BH-9

11/22/17: Depths 4-5/6-7/9-10 taken off of hold for sampels BH-6,BH-7,BH-8,BH-9.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3033393 Inorganic Anions by EPA 300/300.1

Lab Sample ID 568179-009 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 568179-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3033394 Inorganic Anions by EPA 300/300.1

Lab Sample ID 568179-026 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 568179-021, -022, -023, -025, -026, -027, -028, -029, -030, -031, -032, -033.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3033435 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3033476 Inorganic Anions by EPA 300/300.1

Lab Sample ID 568179-060 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 568179-060, -062, -063, -064, -065, -066, -067, -068, -069, -070, -071, -072, -073, -074, -075, -076, -077, -078, -079.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3033483 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Marathon

Project ID: Warren State #1
Work Order Number(s): 568179

Report Date: 03-DEC-17
Date Received: 11/13/2017

Batch: LBA-3033607 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3034077 TPH By SW8015 Mod

Lab Sample ID 568179-057 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Diesel Range Organics (DRO) recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 568179-056, -057, -058, -085.

The Laboratory Control Sample for Diesel Range Organics (DRO) is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	568179-001	568179-002	568179-003	568179-004	568179-005	568179-006
	<i>Field Id:</i>	BH #1 (0-1') 2'BEB	BH #1 (2-3') 2'BEB	BH #1 (4-5') 2'BEB	BH #1 (6-7') 2'BEB	BH #1 (9-10') 2'BEB	BH #1 (14-15') 2'BEB
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Nov-15-17 11:30					
	<i>Analyzed:</i>	Nov-16-17 01:11					
	<i>Units/RL:</i>	mg/kg RL					
Benzene		<0.00201 0.00201					
Toluene		<0.00201 0.00201					
Ethylbenzene		<0.00201 0.00201					
m,p-Xylenes		0.00463 0.00402					
o-Xylene		<0.00201 0.00201					
Total Xylenes		0.00463 0.00201					
Total BTEX		0.00463 0.00201					
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00
	<i>Analyzed:</i>	Nov-14-17 15:11	Nov-14-17 15:18	Nov-14-17 15:24	Nov-14-17 15:30	Nov-14-17 15:49	Nov-14-17 15:56
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2750 24.9	2740 24.9	2980 24.7	2570 24.7	1980 25.0	1070 25.0
TPH By SW8015 Mod	<i>Extracted:</i>	Nov-16-17 09:00	Nov-20-17 15:00				
	<i>Analyzed:</i>	Nov-16-17 12:32	Nov-21-17 09:43				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0				
Diesel Range Organics (DRO)		384 15.0	89.8 15.0				
Oil Range Hydrocarbons (ORO)		88.8 15.0	<15.0 15.0				
Total TPH		473 15.0	89.8 15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	568179-007	568179-008	568179-009	568179-010	568179-011	568179-012
	Field Id:	BH #1 (19-20') 2'BEB	BH #1 (24-25') 2'BEB	BH #1 (29-30') 2'BEB	BH #1 (34-35') 2'BEB	BH #1 (39-40') 2'BEB	BH #1 (44-45') 2'BEB
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00
	Analyzed:	Nov-14-17 16:02	Nov-14-17 16:09	Nov-14-17 14:52	Nov-14-17 16:15	Nov-14-17 16:21	Nov-14-17 16:40
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2500 25.0	2920 24.8	979 4.93	144 4.95	115 4.92	58.1 4.93

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	568179-013	568179-014	568179-015	568179-016	568179-017	568179-018
	Field Id:	BH #1 (50') 2'BEB	BH #2 (0-1')	BH #2 (2-3')	BH #2 (4-5')	BH#2 (6-7')	BH #2 (9-10')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00
BTEX by EPA 8021B	Extracted:	Nov-14-17 16:50	Nov-15-17 11:30				
	Analyzed:	Nov-15-17 10:15	Nov-16-17 00:52				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00200 0.00200	<0.00202 0.00202				
Toluene		<0.00200 0.00200	<0.00202 0.00202				
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202				
m,p-Xylenes		<0.00401 0.00401	<0.00404 0.00404				
o-Xylene		<0.00200 0.00200	<0.00202 0.00202				
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202				
Total BTEX		<0.00200 0.00200	<0.00202 0.00202				
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 11:00
	Analyzed:	Nov-14-17 16:47	Nov-14-17 17:06	Nov-14-17 17:12	Nov-14-17 17:19	Nov-14-17 17:25	Nov-14-17 17:31
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		41.0 4.91	63.1 4.99	89.7 4.93	1170 4.98	1400 25.0	544 4.99
TPH By SW8015 Mod	Extracted:	Nov-16-17 09:00	Nov-16-17 09:00	Nov-20-17 15:00			
	Analyzed:	Nov-16-17 12:52	Nov-16-17 13:52	Nov-21-17 14:53			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Diesel Range Organics (DRO)		<15.0 15.0	85.7 15.0	58.0 15.0			
Oil Range Hydrocarbons (ORO)		<15.0 15.0	17.3 15.0	<15.0 15.0			
Total TPH		<15.0 15.0	103 15.0	58.0 15.0			

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	568179-019	568179-020	568179-021	568179-022	568179-023	568179-025
	Field Id:	BH #2 (14-15')	BH #2 (19-20')	BH #2 (24-25')	BH #2 (30')	BH #2 (40')	BH #3 (0-1') 1.5'BEB
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00
BTEX by EPA 8021B	Extracted:					Nov-15-17 11:00	Nov-15-17 11:00
	Analyzed:					Nov-16-17 21:10	Nov-16-17 15:18
	Units/RL:					mg/kg RL	mg/kg RL
Benzene						<0.00200 0.00200	<0.00199 0.00199
Toluene						<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene						<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes						<0.00401 0.00401	<0.00398 0.00398
o-Xylene						<0.00200 0.00200	<0.00199 0.00199
Total Xylenes						<0.00200 0.00200	<0.00199 0.00199
Total BTEX						<0.00200 0.00200	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-14-17 11:00	Nov-14-17 11:00	Nov-14-17 14:00	Nov-14-17 14:00	Nov-14-17 14:00	Nov-14-17 14:00
	Analyzed:	Nov-14-17 17:38	Nov-14-17 17:44	Nov-15-17 00:32	Nov-15-17 00:39	Nov-15-17 00:45	Nov-15-17 00:58
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		495 4.96	709 4.99	266 4.93	199 4.96	42.6 4.93	554 4.91
TPH By SW8015 Mod	Extracted:					Nov-16-17 09:00	Nov-16-17 09:00
	Analyzed:					Nov-16-17 14:12	Nov-16-17 14:31
	Units/RL:					mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)						<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)						<15.0 15.0	72.9 15.0
Oil Range Hydrocarbons (ORO)						<15.0 15.0	<15.0 15.0
Total TPH						<15.0 15.0	72.9 15.0

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Version: 1.0%

Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
 Contact: Ike Tavaréz
 Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
 Report Date: 03-DEC-17
 Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	568179-026	568179-027	568179-028	568179-029	568179-030	568179-031
	Field Id:	BH #3 (2-3') 1.5'BEB	BH #3 (4-5') 1.5'BEB	BH #3 (6-7') 1.5'BEB	BH #3 (9-10') 1.5'BEB	BH #3 (14-15') 1.5'BEB	BH #3 (19-20') 1.5'BEB
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00	Nov-07-17 00:00
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-14-17 14:00	Nov-14-17 14:00	Nov-14-17 14:00	Nov-14-17 14:00	Nov-14-17 14:00	Nov-14-17 14:00
	Analyzed:	Nov-15-17 01:04	Nov-15-17 01:23	Nov-15-17 01:30	Nov-15-17 01:49	Nov-15-17 01:55	Nov-15-17 02:02
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		855 5.00	1750 25.0	168 4.99	211 4.98	653 4.93	239 4.98

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Mike Kimmel
 Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	568179-032	568179-033	568179-036	568179-037	568179-038	568179-039
	Field Id:	BH #3 (24-25') 1.5'BEB	BH #3 (29-30') 1.5'BEB	BH #4 (0-1') 1.5'BEB	BH #4 (2-3') 1.5'BEB	BH #4 (4-5') 1.5'BEB	BH #4 (6-7') 1.5'BEB
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-07-17 00:00	Nov-07-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00
BTEX by EPA 8021B	Extracted:		Nov-15-17 11:00	Nov-15-17 11:00			
	Analyzed:		Nov-16-17 15:37	Nov-16-17 15:56			
	Units/RL:		mg/kg RL	mg/kg RL			
Benzene			<0.00200 0.00200	<0.00202 0.00202			
Toluene			<0.00200 0.00200	<0.00202 0.00202			
Ethylbenzene			<0.00200 0.00200	<0.00202 0.00202			
m,p-Xylenes			<0.00399 0.00399	<0.00404 0.00404			
o-Xylene			<0.00200 0.00200	<0.00202 0.00202			
Total Xylenes			<0.00200 0.00200	<0.00202 0.00202			
Total BTEX			<0.00200 0.00200	<0.00202 0.00202			
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-14-17 14:00	Nov-14-17 14:00	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30
	Analyzed:	Nov-15-17 02:08	Nov-15-17 02:15	Nov-14-17 17:22	Nov-14-17 17:49	Nov-14-17 17:58	Nov-14-17 18:06
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		135 4.92	280 4.99	1190 4.99	1320 4.93	330 4.93	198 4.93
TPH By SW8015 Mod	Extracted:		Nov-16-17 09:00	Nov-16-17 09:00			
	Analyzed:		Nov-16-17 14:51	Nov-16-17 15:11			
	Units/RL:		mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)			<15.0 15.0	<15.0 15.0			
Diesel Range Organics (DRO)			<15.0 15.0	<15.0 15.0			
Oil Range Hydrocarbons (ORO)			<15.0 15.0	<15.0 15.0			
Total TPH			<15.0 15.0	<15.0 15.0			

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	568179-040	568179-041	568179-042	568179-043	568179-044	568179-045
	<i>Field Id:</i>	BH #4 (9-10') 1.5'BEB	BH #4 (14-15') 1.5'BEB	BH #4 (19-20') 1.5'BEB	BH #5 (0-1')	BH #5 (2-3')	BH #5 (4-5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00
BTEX by EPA 8021B	<i>Extracted:</i>			Nov-15-17 11:00	Nov-15-17 11:00		
	<i>Analyzed:</i>			Nov-16-17 14:40	Nov-16-17 16:45		
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL		
Benzene				<0.00202 0.00202	<0.00199 0.00199		
Toluene				<0.00202 0.00202	<0.00199 0.00199		
Ethylbenzene				<0.00202 0.00202	<0.00199 0.00199		
m,p-Xylenes				<0.00403 0.00403	<0.00398 0.00398		
o-Xylene				<0.00202 0.00202	<0.00199 0.00199		
Total Xylenes				<0.00202 0.00202	<0.00199 0.00199		
Total BTEX				<0.00202 0.00202	<0.00199 0.00199		
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30
	<i>Analyzed:</i>	Nov-14-17 18:15	Nov-14-17 18:42	Nov-14-17 18:51	Nov-14-17 18:59	Nov-14-17 19:08	Nov-14-17 19:17
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		69.7 4.98	59.8 4.99	66.6 4.92	32.8 4.90	34.9 4.99	587 4.98
TPH By SW8015 Mod	<i>Extracted:</i>			Nov-16-17 09:00	Nov-16-17 09:00		
	<i>Analyzed:</i>			Nov-16-17 15:31	Nov-16-17 15:51		
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)				<14.9 14.9	<15.0 15.0		
Diesel Range Organics (DRO)				<14.9 14.9	<15.0 15.0		
Oil Range Hydrocarbons (ORO)				<14.9 14.9	<15.0 15.0		
Total TPH				<14.9 14.9	<15.0 15.0		

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Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	568179-046	568179-047	568179-048	568179-049	568179-050	568179-051
	Field Id:	BH #5 (6-7')	BH #5 (9-10')	BH #5 (14-15')	BH #5 (19-20')	BH #5 (24-25')	BH #6 (0-1')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00
BTEX by EPA 8021B	Extracted:					Nov-15-17 11:00	Nov-15-17 11:00
	Analyzed:					Nov-16-17 17:04	Nov-16-17 17:24
	Units/RL:					mg/kg RL	mg/kg RL
Benzene						<0.00200 0.00200	0.00740 0.00201
Toluene						<0.00200 0.00200	0.00699 0.00201
Ethylbenzene						<0.00200 0.00200	0.0101 0.00201
m,p-Xylenes						<0.00399 0.00399	0.0544 0.00402
o-Xylene						<0.00200 0.00200	0.0381 0.00201
Total Xylenes						<0.00200 0.00200	0.0925 0.00201
Total BTEX						<0.00200 0.00200	0.117 0.00201
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30
	Analyzed:	Nov-14-17 19:26	Nov-14-17 19:52	Nov-14-17 20:01	Nov-14-17 20:28	Nov-14-17 20:37	Nov-14-17 20:46
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		739 4.98	228 4.95	124 4.96	107 4.91	30.6 4.93	1790 24.7
TPH By SW8015 Mod	Extracted:					Nov-16-17 09:00	Nov-16-17 09:00
	Analyzed:					Nov-16-17 16:11	Nov-16-17 17:11
	Units/RL:					mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)						<15.0 15.0	258 74.9
Diesel Range Organics (DRO)						<15.0 15.0	3960 74.9
Oil Range Hydrocarbons (ORO)						<15.0 15.0	587 74.9
Total TPH						<15.0 15.0	4810 74.9

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Client Services Manager



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Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	568179-052	568179-053	568179-054	568179-055	568179-056	568179-057
	<i>Field Id:</i>	BH #6 (2-3')	BH #6 (4-5')	BH #6 (6-7')	BH #6 (9-10')	BH #6 (14-15')	BH #6 (19-20')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30	Nov-14-17 16:30	Nov-15-17 09:00	Nov-15-17 09:00
	<i>Analyzed:</i>	Nov-14-17 20:54	Nov-14-17 21:03	Nov-14-17 21:12	Nov-14-17 21:21	Nov-15-17 12:32	Nov-15-17 12:38
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1490 24.7	1000 4.96	1100 4.90	975 4.95	1110 24.7	2590 24.9
TPH By SW8015 Mod	<i>Extracted:</i>	Nov-20-17 15:00	Nov-20-17 15:00	Nov-20-17 15:00	Nov-20-17 15:00	Nov-22-17 08:00	Nov-22-17 08:00
	<i>Analyzed:</i>	Nov-21-17 10:45	Nov-21-17 13:36	Nov-21-17 16:18	Nov-21-17 16:59	Nov-22-17 12:09	Nov-22-17 12:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		86.0 15.0	223 15.0	326 15.0	528 15.0	798 15.0	235 15.0
Diesel Range Organics (DRO)		790 15.0	1090 15.0	1180 15.0	3460 15.0	3450 15.0	1440 15.0
Oil Range Hydrocarbons (ORO)		103 15.0	99.3 15.0	72.7 15.0	377 15.0	362 15.0	147 15.0
Total TPH		979 15.0	1410 15.0	1580 15.0	4370 15.0	4610 15.0	1820 15.0

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	568179-058	568179-059	568179-060	568179-061	568179-062	568179-063
	Field Id:	BH #6 (24-25')	BH #6 (29-30')	BH #6 (40')	BH #6 (50')	BH #6 (55')	BH #7 (0-1')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00
BTEX by EPA 8021B	Extracted:					Nov-15-17 11:00	Nov-15-17 11:00
	Analyzed:					Nov-16-17 18:57	Nov-16-17 19:16
	Units/RL:					mg/kg RL	mg/kg RL
Benzene						<0.00332 0.00332	<0.00201 0.00201
Toluene						<0.00332 0.00332	0.00654 0.00201
Ethylbenzene						<0.00332 0.00332	0.0100 0.00201
m,p-Xylenes						<0.00664 0.00664	0.0590 0.00402
o-Xylene						<0.00332 0.00332	0.0498 0.00201
Total Xylenes						<0.00332 0.00332	0.109 0.00201
Total BTEX						<0.00332 0.00332	0.125 0.00201
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-15-17 09:00	Nov-15-17 09:00	Nov-15-17 11:00	Nov-15-17 14:00	Nov-15-17 11:00	Nov-15-17 11:00
	Analyzed:	Nov-15-17 12:44	Nov-15-17 12:51	Nov-15-17 16:21	Nov-15-17 20:11	Nov-15-17 16:47	Nov-15-17 16:53
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3590 24.6	2200 24.6	1120 5.00	860 4.93	553 4.97	3030 24.8
TPH By SW8015 Mod	Extracted:	Nov-22-17 08:00				Nov-16-17 09:00	Nov-16-17 09:00
	Analyzed:	Nov-22-17 13:32				Nov-16-17 17:31	Nov-16-17 17:52
	Units/RL:	mg/kg RL				mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<14.9 14.9				<15.0 15.0	418 74.8
Diesel Range Organics (DRO)		90.3 14.9				<15.0 15.0	7280 74.8
Oil Range Hydrocarbons (ORO)		<14.9 14.9				<15.0 15.0	1120 74.8
Total TPH		90.3 14.9				<15.0 15.0	8820 74.8

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Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	568179-064	568179-065	568179-066	568179-067	568179-068	568179-069
	<i>Field Id:</i>	BH #7 (2-3')	BH #7 (4-5')	BH #7 (6-7')	BH #7 (9-10')	BH #7 (14-15')	BH #7 (19-20')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 11:00
	<i>Analyzed:</i>	Nov-15-17 17:00	Nov-15-17 17:19	Nov-15-17 17:25	Nov-15-17 17:31	Nov-15-17 17:38	Nov-15-17 17:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2980 25.0	3640 25.0	1850 25.0	1080 4.98	1250 24.8	1140 5.00
TPH By SW8015 Mod	<i>Extracted:</i>	Nov-20-17 15:00	Nov-20-17 15:00				
	<i>Analyzed:</i>	Nov-21-17 11:06	Nov-21-17 13:56				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		54.9 15.0	<15.0 15.0				
Diesel Range Organics (DRO)		548 15.0	<15.0 15.0				
Oil Range Hydrocarbons (ORO)		76.6 15.0	<15.0 15.0				
Total TPH		680 15.0	<15.0 15.0				

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Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	568179-070	568179-071	568179-072	568179-073	568179-074	568179-075
	<i>Field Id:</i>	BH #7 (24-25')	BH #7 (29-30')	BH #7 (40')	BH #8 (0-1')	BH #8 (2-3')	BH #8 (4-5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00
BTEX by EPA 8021B	<i>Extracted:</i>			Nov-15-17 11:00	Nov-15-17 11:00		
	<i>Analyzed:</i>			Nov-16-17 19:35	Nov-16-17 19:54		
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL		
Benzene				<0.00330 0.00330	<0.00202 0.00202		
Toluene				<0.00330 0.00330	<0.00202 0.00202		
Ethylbenzene				<0.00330 0.00330	<0.00202 0.00202		
m,p-Xylenes				<0.00660 0.00660	0.0232 0.00403		
o-Xylene				<0.00330 0.00330	0.0224 0.00202		
Total Xylenes				<0.00330 0.00330	0.0456 0.00202		
Total BTEX				<0.00330 0.00330	0.0456 0.00202		
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 11:00
	<i>Analyzed:</i>	Nov-15-17 17:51	Nov-15-17 18:10	Nov-15-17 18:16	Nov-15-17 18:35	Nov-15-17 18:42	Nov-15-17 18:48
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		335 4.92	147 4.99	17.1 4.98	2630 24.9	2400 24.9	2120 24.9
TPH By SW8015 Mod	<i>Extracted:</i>			Nov-16-17 09:00	Nov-16-17 09:00	Nov-20-17 15:00	Nov-20-17 15:00
	<i>Analyzed:</i>			Nov-16-17 18:13	Nov-16-17 18:32	Nov-21-17 11:26	Nov-21-17 14:16
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)				<14.9 14.9	133 74.7	38.5 15.0	<15.0 15.0
Diesel Range Organics (DRO)				<14.9 14.9	4480 74.7	595 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)				<14.9 14.9	724 74.7	102 15.0	<15.0 15.0
Total TPH				<14.9 14.9	5340 74.7	736 15.0	<15.0 15.0

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Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	568179-076	568179-077	568179-078	568179-079	568179-080	568179-081
	<i>Field Id:</i>	BH #8 (6-7')	BH #8 (9-10')	BH #8 (14-15')	BH #8 (19-20')	BH #8 (24-25')	BH #8 (29-30')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00
BTEX by EPA 8021B	<i>Extracted:</i>						Nov-15-17 11:00
	<i>Analyzed:</i>						Nov-16-17 20:13
	<i>Units/RL:</i>						mg/kg RL
Benzene							<0.00334 0.00334
Toluene							<0.00334 0.00334
Ethylbenzene							<0.00334 0.00334
m,p-Xylenes							<0.00669 0.00669
o-Xylene							<0.00334 0.00334
Total Xylenes							<0.00334 0.00334
Total BTEX							<0.00334 0.00334
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 11:00	Nov-15-17 16:00	Nov-15-17 16:00
	<i>Analyzed:</i>	Nov-15-17 18:54	Nov-15-17 19:01	Nov-15-17 19:07	Nov-15-17 19:14	Nov-15-17 17:30	Nov-15-17 17:56
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		824 4.99	519 4.98	227 4.98	141 4.92	87.0 4.91	38.4 4.99
TPH By SW8015 Mod	<i>Extracted:</i>						Nov-16-17 09:00
	<i>Analyzed:</i>						Nov-16-17 18:52
	<i>Units/RL:</i>						mg/kg RL
Gasoline Range Hydrocarbons (GRO)							<15.0 15.0
Diesel Range Organics (DRO)							<15.0 15.0
Oil Range Hydrocarbons (ORO)							<15.0 15.0
Total TPH							<15.0 15.0

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavarez
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	568179-082	568179-083	568179-084	568179-085	568179-086	568179-087
	Field Id:	BH #9 (0-1')	BH #9 (2-3')	BH #9 (4-5')	BH #9 (6-7')	BH #9 (9-10')	BH #9 (14-15')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00
BTEX by EPA 8021B	Extracted:	Nov-15-17 11:00					
	Analyzed:	Nov-16-17 20:32					
	Units/RL:	mg/kg RL					
Benzene		0.00336 0.00202					
Toluene		0.0454 0.00202					
Ethylbenzene		0.0307 0.00202					
m,p-Xylenes		0.0978 0.00404					
o-Xylene		0.112 0.00202					
Total Xylenes		0.210 0.00202					
Total BTEX		0.289 0.00202					
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-15-17 16:00	Nov-15-17 16:00	Nov-15-17 16:00	Nov-15-17 16:00	Nov-15-17 16:00	Nov-15-17 16:00
	Analyzed:	Nov-15-17 18:05	Nov-15-17 18:14	Nov-15-17 18:23	Nov-15-17 18:49	Nov-15-17 18:58	Nov-15-17 19:07
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4190 24.9	2590 24.6	994 4.99	1110 4.99	1220 4.93	843 4.98
TPH By SW8015 Mod	Extracted:	Nov-16-17 09:00	Nov-20-17 15:00	Nov-20-17 15:00	Nov-22-17 08:00		
	Analyzed:	Nov-16-17 19:13	Nov-21-17 11:47	Nov-21-17 16:38	Nov-22-17 13:52		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		500 74.9	151 15.0	86.8 15.0	<15.0 15.0		
Diesel Range Organics (DRO)		6390 74.9	586 15.0	386 15.0	<15.0 15.0		
Oil Range Hydrocarbons (ORO)		759 74.9	62.9 15.0	37.4 15.0	<15.0 15.0		
Total TPH		7650 74.9	800 15.0	510 15.0	<15.0 15.0		

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Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 568179

Tetra Tech- Midland, Midland, TX

Project Name: Marathon



Project Id: Warren State #1
Contact: Ike Tavaréz
Project Location: Lea Co, NM

Date Received in Lab: Mon Nov-13-17 11:10 am
Report Date: 03-DEC-17
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	568179-088	568179-089	568179-090	568179-091		
	<i>Field Id:</i>	BH #9 (19-20')	BH #9 (24-25')	BH #9 (29-30')	BH #9 (40')		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00	Nov-09-17 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>				Nov-15-17 11:00		
	<i>Analyzed:</i>				Nov-16-17 20:51		
	<i>Units/RL:</i>				mg/kg RL		
Benzene					<0.00322 0.00322		
Toluene					<0.00322 0.00322		
Ethylbenzene					<0.00322 0.00322		
m,p-Xylenes					<0.00643 0.00643		
o-Xylene					<0.00322 0.00322		
Total Xylenes					<0.00322 0.00322		
Total BTEX					<0.00322 0.00322		
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Nov-15-17 16:00	Nov-15-17 16:00	Nov-15-17 16:00	Nov-15-17 16:00		
	<i>Analyzed:</i>	Nov-15-17 19:16	Nov-15-17 19:25	Nov-15-17 19:34	Nov-15-17 20:00		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		393 4.92	289 4.92	257 4.93	72.1 4.99		
TPH By SW8015 Mod	<i>Extracted:</i>				Nov-16-17 09:00		
	<i>Analyzed:</i>				Nov-16-17 19:34		
	<i>Units/RL:</i>				mg/kg RL		
Gasoline Range Hydrocarbons (GRO)					<15.0 15.0		
Diesel Range Organics (DRO)					<15.0 15.0		
Oil Range Hydrocarbons (ORO)					<15.0 15.0		
Total TPH					<15.0 15.0		

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Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Project ID: Warren State #1

Lab Batch #: 3033435

Sample: 568179-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/15/17 10:15

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0248	0.0300	83	80-120	

Lab Batch #: 3033483

Sample: 568179-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 00:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	0.0249	0.0300	83	80-120	

Lab Batch #: 3033483

Sample: 568179-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 01:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0270	0.0300	90	80-120	

Lab Batch #: 3033814

Sample: 568179-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 12:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.8	99.8	92	70-135	
o-Terphenyl	47.1	49.9	94	70-135	

Lab Batch #: 3033814

Sample: 568179-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 12:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.6	99.7	91	70-135	
o-Terphenyl	45.7	49.9	92	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033814

Sample: 568179-014 / SMP

Project ID: Warren State #1

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 13:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.8	99.7	91	70-135	
o-Terphenyl	47.4	49.9	95	70-135	

Lab Batch #: 3033814

Sample: 568179-023 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 14:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.4	99.8	91	70-135	
o-Terphenyl	44.2	49.9	89	70-135	

Lab Batch #: 3033814

Sample: 568179-025 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 14:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.2	99.8	93	70-135	
o-Terphenyl	47.6	49.9	95	70-135	

Lab Batch #: 3033607

Sample: 568179-042 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 14:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 3033814

Sample: 568179-033 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 14:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.6	100	93	70-135	
o-Terphenyl	45.9	50.0	92	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033814

Sample: 568179-036 / SMP

Project ID: Warren State #1

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 15:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.3	99.8	90	70-135	
o-Terphenyl	44.6	49.9	89	70-135	

Lab Batch #: 3033607

Sample: 568179-025 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 15:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 3033814

Sample: 568179-042 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 15:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.1	99.6	89	70-135	
o-Terphenyl	44.4	49.8	89	70-135	

Lab Batch #: 3033607

Sample: 568179-033 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 15:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 3033814

Sample: 568179-043 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 15:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.7	100	95	70-135	
o-Terphenyl	48.7	50.0	97	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033607

Sample: 568179-036 / SMP

Project ID: Warren State #1

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 15:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 3033814

Sample: 568179-050 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 16:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.8	99.8	87	70-135	
o-Terphenyl	43.6	49.9	87	70-135	

Lab Batch #: 3033607

Sample: 568179-043 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 16:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 3033607

Sample: 568179-050 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 17:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 3033814

Sample: 568179-051 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 17:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.3	99.9	98	70-135	
o-Terphenyl	45.9	50.0	92	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033607

Sample: 568179-051 / SMP

Project ID: Warren State #1

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 17:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

Lab Batch #: 3033814

Sample: 568179-062 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 17:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	91.5	99.9	92	70-135	
o-Terphenyl	44.4	50.0	89	70-135	

Lab Batch #: 3033814

Sample: 568179-063 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 17:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	96.1	99.7	96	70-135	
o-Terphenyl	47.6	49.9	95	70-135	

Lab Batch #: 3033814

Sample: 568179-072 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 18:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	87.5	99.6	88	70-135	
o-Terphenyl	42.6	49.8	86	70-135	

Lab Batch #: 3033814

Sample: 568179-073 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 18:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	89.7	99.6	90	70-135	
o-Terphenyl	46.0	49.8	92	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033814

Sample: 568179-081 / SMP

Project ID: Warren State #1

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 18:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.2	99.7	86	70-135	
o-Terphenyl	42.6	49.9	85	70-135	

Lab Batch #: 3033607

Sample: 568179-062 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 18:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

Lab Batch #: 3033814

Sample: 568179-082 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 19:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.9	100	70-135	
o-Terphenyl	47.0	50.0	94	70-135	

Lab Batch #: 3033607

Sample: 568179-063 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 19:16

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0255	0.0300	85	80-120	
4-Bromofluorobenzene	0.0352	0.0300	117	80-120	

Lab Batch #: 3033814

Sample: 568179-091 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 19:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.1	99.9	87	70-135	
o-Terphenyl	40.5	50.0	81	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033607

Sample: 568179-072 / SMP

Project ID: Warren State #1

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 19:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0266	0.0300	89	80-120	

Lab Batch #: 3033607

Sample: 568179-073 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 19:54

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0331	0.0300	110	80-120	

Lab Batch #: 3033607

Sample: 568179-081 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 20:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 3033607

Sample: 568179-082 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 20:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0332	0.0300	111	80-120	

Lab Batch #: 3033607

Sample: 568179-091 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 20:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033607

Sample: 568179-023 / SMP

Project ID: Warren State #1

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 21:10

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 3033962

Sample: 568179-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 09:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 3033962

Sample: 568179-052 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 10:45

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	89.9	100	90	70-135	
o-Terphenyl	43.4	50.0	87	70-135	

Lab Batch #: 3033962

Sample: 568179-064 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 11:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	91.7	100	92	70-135	
o-Terphenyl	45.1	50.0	90	70-135	

Lab Batch #: 3033962

Sample: 568179-074 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 11:26

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	92.1	100	92	70-135	
o-Terphenyl	42.5	50.0	85	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Project ID: Warren State #1

Lab Batch #: 3033962

Sample: 568179-083 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 11:47

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	53.7	50.0	107	70-135	

Lab Batch #: 3033962

Sample: 568179-053 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 13:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.7	100	96	70-135	
o-Terphenyl	38.0	50.0	76	70-135	

Lab Batch #: 3033962

Sample: 568179-065 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 13:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.4	100	92	70-135	
o-Terphenyl	47.4	50.0	95	70-135	

Lab Batch #: 3033962

Sample: 568179-075 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 14:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	52.0	50.0	104	70-135	

Lab Batch #: 3033962

Sample: 568179-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 14:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.2	100	96	70-135	
o-Terphenyl	51.0	50.0	102	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033962

Sample: 568179-054 / SMP

Project ID: Warren State #1

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 16:18

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.4	100	90	70-135	
o-Terphenyl	42.9	50.0	86	70-135	

Lab Batch #: 3033962

Sample: 568179-084 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 16:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	100	94	70-135	
o-Terphenyl	44.9	50.0	90	70-135	

Lab Batch #: 3033962

Sample: 568179-055 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 16:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	43.6	50.0	87	70-135	

Lab Batch #: 3034077

Sample: 568179-056 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/22/17 12:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.7	99.8	93	70-135	
o-Terphenyl	44.4	49.9	89	70-135	

Lab Batch #: 3034077

Sample: 568179-057 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/22/17 12:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	99.7	94	70-135	
o-Terphenyl	40.0	49.9	80	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Project ID: Warren State #1

Lab Batch #: 3034077

Sample: 568179-058 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/22/17 13:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.6	103	70-135	
o-Terphenyl	54.1	49.8	109	70-135	

Lab Batch #: 3034077

Sample: 568179-085 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/22/17 13:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.2	99.8	92	70-135	
o-Terphenyl	48.8	49.9	98	70-135	

Lab Batch #: 3033435

Sample: 7634470-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/15/17 03:16

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0274	0.0300	91	80-120	

Lab Batch #: 3033483

Sample: 7634508-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/15/17 17:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 3033814

Sample: 7634594-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/16/17 11:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.9	100	93	70-135	
o-Terphenyl	48.3	50.0	97	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033607

Sample: 7634550-1-BLK / BLK

Project ID: Warren State #1

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/16/17 14:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0246	0.0300	82	80-120	

Lab Batch #: 3033962

Sample: 7634803-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/21/17 04:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	96.2	100	96	70-135	
o-Terphenyl	49.3	50.0	99	70-135	

Lab Batch #: 3034077

Sample: 7634875-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/22/17 11:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	85.9	99.9	86	70-135	
o-Terphenyl	45.7	50.0	91	70-135	

Lab Batch #: 3033435

Sample: 7634470-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/15/17 01:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 3033483

Sample: 7634508-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/15/17 14:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0246	0.0300	82	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033814

Sample: 7634594-1-BKS / BKS

Project ID: Warren State #1

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/16/17 11:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	57.1	50.0	114	70-135	

Lab Batch #: 3033607

Sample: 7634550-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/16/17 12:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0284	0.0300	95	80-120	

Lab Batch #: 3033962

Sample: 7634803-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/21/17 05:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	59.0	50.0	118	70-135	

Lab Batch #: 3034077

Sample: 7634875-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/22/17 11:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.2	100	89	70-135	
o-Terphenyl	57.1	50.0	114	70-135	

Lab Batch #: 3033435

Sample: 7634470-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/15/17 01:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Project ID: Warren State #1

Lab Batch #: 3033483

Sample: 7634508-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/15/17 14:30

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

Lab Batch #: 3033814

Sample: 7634594-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/16/17 12:12

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	55.0	50.0	110	70-135	

Lab Batch #: 3033607

Sample: 7634550-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/16/17 12:46

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 3033962

Sample: 7634803-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/21/17 05:35

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	50.8	50.0	102	70-135	

Lab Batch #: 3034077

Sample: 7634875-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/22/17 11:47

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	99.1	99.9	99	70-135	
o-Terphenyl	54.7	50.0	109	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Project ID: Warren State #1

Lab Batch #: 3033435

Sample: 568179-013 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/15/17 02:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 3033483

Sample: 568429-011 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/15/17 16:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

Lab Batch #: 3033607

Sample: 568179-042 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 13:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

Lab Batch #: 3033814

Sample: 568179-013 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 13:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.9	104	70-135	
o-Terphenyl	56.4	50.0	113	70-135	

Lab Batch #: 3033962

Sample: 568955-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 06:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	51.4	50.0	103	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3034077

Sample: 568179-057 S / MS

Project ID: Warren State #1

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/22/17 12:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.8	104	70-135	
o-Terphenyl	50.8	49.9	102	70-135	

Lab Batch #: 3033435

Sample: 568179-013 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/15/17 02:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0357	0.0300	119	80-120	

Lab Batch #: 3033483

Sample: 568429-011 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/15/17 16:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

Lab Batch #: 3033607

Sample: 568179-042 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 13:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0244	0.0300	81	80-120	

Lab Batch #: 3033814

Sample: 568179-013 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/16/17 13:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.9	106	70-135	
o-Terphenyl	46.5	50.0	93	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Marathon

Work Orders : 568179,

Lab Batch #: 3033962

Sample: 568955-001 SD / MSD

Project ID: Warren State #1

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/21/17 06:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.6	100	100	70-135	
o-Terphenyl	49.6	50.0	99	70-135	

Lab Batch #: 3034077

Sample: 568179-057 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/22/17 13:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	99.9	111	70-135	
o-Terphenyl	53.3	50.0	107	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Marathon

Work Order #: 568179

Project ID: Warren State #1

Analyst: ALJ

Date Prepared: 11/14/2017

Date Analyzed: 11/15/2017

Lab Batch ID: 3033435

Sample: 7634470-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00201	0.101	0.0856	85	0.101	0.0886	88	3	70-130	35	
Toluene	<0.00201	0.101	0.0826	82	0.101	0.0870	86	5	70-130	35	
Ethylbenzene	<0.00201	0.101	0.0892	88	0.101	0.0927	92	4	71-129	35	
m,p-Xylenes	<0.00402	0.201	0.171	85	0.202	0.179	89	5	70-135	35	
o-Xylene	<0.00201	0.101	0.0883	87	0.101	0.0889	88	1	71-133	35	

Analyst: ALJ

Date Prepared: 11/15/2017

Date Analyzed: 11/15/2017

Lab Batch ID: 3033483

Sample: 7634508-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00200	0.0998	0.124	124	0.100	0.125	125	1	70-130	35	
Toluene	<0.00200	0.0998	0.114	114	0.100	0.110	110	4	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.107	107	0.100	0.104	104	3	71-129	35	
m,p-Xylenes	<0.00399	0.200	0.208	104	0.201	0.204	101	2	70-135	35	
o-Xylene	<0.00200	0.0998	0.0967	97	0.100	0.0942	94	3	71-133	35	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Version: 1.0%



BS / BSD Recoveries



Project Name: Marathon

Work Order #: 568179

Project ID: Warren State #1

Analyst: ALJ

Date Prepared: 11/15/2017

Date Analyzed: 11/16/2017

Lab Batch ID: 3033607

Sample: 7634550-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00200	0.100	0.109	109	0.101	0.117	116	7	70-130	35	
Toluene	<0.00200	0.100	0.101	101	0.101	0.110	109	9	70-130	35	
Ethylbenzene	<0.00200	0.100	0.104	104	0.101	0.108	107	4	71-129	35	
m,p-Xylenes	<0.00401	0.200	0.204	102	0.202	0.209	103	2	70-135	35	
o-Xylene	<0.00200	0.100	0.100	100	0.101	0.103	102	3	71-133	35	

Analyst: MNV

Date Prepared: 11/14/2017

Date Analyzed: 11/14/2017

Lab Batch ID: 3033393

Sample: 7634369-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	248	99	250	247	99	0	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Version: 1.0%



BS / BSD Recoveries



Project Name: Marathon

Work Order #: 568179

Project ID: Warren State #1

Analyst: MNV

Date Prepared: 11/14/2017

Date Analyzed: 11/14/2017

Lab Batch ID: 3033394

Sample: 7634383-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	235	94	250	236	94	0	90-110	20	

Analyst: MNV

Date Prepared: 11/14/2017

Date Analyzed: 11/14/2017

Lab Batch ID: 3033399

Sample: 7634386-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	244	98	250	237	95	3	90-110	20	

Analyst: MNV

Date Prepared: 11/15/2017

Date Analyzed: 11/15/2017

Lab Batch ID: 3033470

Sample: 7634447-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	250	100	250	251	100	0	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Marathon

Work Order #: 568179

Project ID: Warren State #1

Analyst: MNV

Date Prepared: 11/15/2017

Date Analyzed: 11/15/2017

Lab Batch ID: 3033476

Sample: 7634450-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	249	100	250	250	100	0	90-110	20	

Analyst: MNV

Date Prepared: 11/15/2017

Date Analyzed: 11/15/2017

Lab Batch ID: 3033477

Sample: 7634451-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	250	100	250	250	100	0	90-110	20	

Analyst: MNV

Date Prepared: 11/15/2017

Date Analyzed: 11/15/2017

Lab Batch ID: 3033484

Sample: 7634475-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	237	95	250	238	95	0	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Marathon

Work Order #: 568179

Project ID: Warren State #1

Analyst: ARM

Date Prepared: 11/16/2017

Date Analyzed: 11/16/2017

Lab Batch ID: 3033814

Sample: 7634594-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	972	97	1000	954	95	2	70-135	35	
Diesel Range Organics (DRO)	<15.0	1000	1020	102	1000	1010	101	1	70-135	35	

Analyst: JUM

Date Prepared: 11/20/2017

Date Analyzed: 11/21/2017

Lab Batch ID: 3033962

Sample: 7634803-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	998	100	1000	1030	103	3	70-135	35	
Diesel Range Organics (DRO)	<15.0	1000	1070	107	1000	1140	114	6	70-135	35	

Analyst: ALJ

Date Prepared: 11/22/2017

Date Analyzed: 11/22/2017

Lab Batch ID: 3034077

Sample: 7634875-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	999	100	999	979	98	2	70-135	35	
Diesel Range Organics (DRO)	<15.0	1000	1030	103	999	1010	101	2	70-135	35	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Marathon

Work Order #: 568179

Project ID: Warren State #1

Lab Batch ID: 3033435

QC- Sample ID: 568179-013 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/14/2017

Analyst: ALJ

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00201	0.100	0.0833	83	0.0996	0.0802	81	4	70-130	35	
Toluene	<0.00201	0.100	0.0828	83	0.0996	0.0789	79	5	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0876	88	0.0996	0.0856	86	2	71-129	35	
m,p-Xylenes	<0.00402	0.201	0.167	83	0.199	0.163	82	2	70-135	35	
o-Xylene	<0.00201	0.100	0.0822	82	0.0996	0.0871	87	6	71-133	35	

Lab Batch ID: 3033483

QC- Sample ID: 568429-011 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/15/2017

Analyst: ALJ

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00199	0.0996	0.101	101	0.100	0.116	116	14	70-130	35	
Toluene	<0.00199	0.0996	0.0790	79	0.100	0.0884	88	11	70-130	35	
Ethylbenzene	<0.00199	0.0996	0.0602	60	0.100	0.0657	66	9	71-129	35	X
m,p-Xylenes	<0.00398	0.199	0.111	56	0.200	0.110	55	1	70-135	35	X
o-Xylene	<0.00199	0.0996	0.0601	60	0.100	0.0690	69	14	71-133	35	X

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Marathon

Work Order #: 568179

Project ID: Warren State #1

Lab Batch ID: 3033607

QC- Sample ID: 568179-042 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/16/2017

Date Prepared: 11/15/2017

Analyst: ALJ

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00201	0.100	0.106	106	0.101	0.100	99	6	70-130	35	
Toluene	<0.00201	0.100	0.0991	99	0.101	0.0928	92	7	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0988	99	0.101	0.0916	91	8	71-129	35	
m,p-Xylenes	<0.00402	0.201	0.193	96	0.202	0.180	89	7	70-135	35	
o-Xylene	<0.00201	0.100	0.0945	95	0.101	0.0887	88	6	71-133	35	

Lab Batch ID: 3033393

QC- Sample ID: 568179-009 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/14/2017

Date Prepared: 11/14/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	979	247	1170	77	247	1160	73	1	90-110	20	X

Lab Batch ID: 3033393

QC- Sample ID: 568179-011 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/14/2017

Date Prepared: 11/14/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	115	246	351	96	246	352	96	0	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Marathon

Work Order # : 568179

Project ID: Warren State #1

Lab Batch ID: 3033394

QC- Sample ID: 568179-026 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/14/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	855	250	1040	74	250	1030	70	1	90-110	20	X

Lab Batch ID: 3033394

QC- Sample ID: 568321-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/14/2017

Date Prepared: 11/14/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	9.56	250	252	97	250	254	98	1	90-110	20	

Lab Batch ID: 3033399

QC- Sample ID: 568179-036 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/14/2017

Date Prepared: 11/14/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1190	250	1420	92	250	1420	92	0	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Marathon

Work Order # : 568179

Project ID: Warren State #1

Lab Batch ID: 3033399

QC- Sample ID: 568179-046 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/14/2017

Date Prepared: 11/14/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	739	249	994	102	249	994	102	0	90-110	20	

Lab Batch ID: 3033470

QC- Sample ID: 568121-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/15/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	354	247	582	92	247	582	92	0	90-110	20	

Lab Batch ID: 3033470

QC- Sample ID: 568121-011 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/15/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	31.6	250	296	106	250	306	110	3	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Marathon

Work Order #: 568179

Project ID: Warren State #1

Lab Batch ID: 3033476

QC- Sample ID: 568179-060 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/15/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1120	250	1270	60	250	1270	60	0	90-110	20	X

Lab Batch ID: 3033476

QC- Sample ID: 568179-070 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/15/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	335	246	564	93	246	557	90	1	90-110	20	

Lab Batch ID: 3033477

QC- Sample ID: 568380-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/15/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	5.24	247	260	103	247	256	102	2	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Marathon

Work Order # : 568179

Project ID: Warren State #1

Lab Batch ID: 3033477

QC- Sample ID: 568429-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/15/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	435	246	654	89	246	649	87	1	90-110	20	X

Lab Batch ID: 3033484

QC- Sample ID: 568179-080 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/15/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	87.0	246	313	92	246	314	92	0	90-110	20	

Lab Batch ID: 3033484

QC- Sample ID: 568179-090 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2017

Date Prepared: 11/15/2017

Analyst: MNV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	257	247	508	102	247	510	102	0	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Marathon

Work Order #: 568179

Project ID: Warren State #1

Lab Batch ID: 3033814

QC- Sample ID: 568179-013 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/16/2017

Date Prepared: 11/16/2017

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	962	96	999	972	97	1	70-135	35	
Diesel Range Organics (DRO)	<15.0	999	1050	105	999	1060	106	1	70-135	35	

Lab Batch ID: 3033962

QC- Sample ID: 568955-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/21/2017

Date Prepared: 11/20/2017

Analyst: JUM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	900	90	1000	838	84	7	70-135	35	
Diesel Range Organics (DRO)	<15.0	1000	944	94	1000	904	90	4	70-135	35	

Lab Batch ID: 3034077

QC- Sample ID: 568179-057 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/22/2017

Date Prepared: 11/22/2017

Analyst: ALJ

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	235	998	949	72	999	1030	80	8	70-135	35	
Diesel Range Organics (DRO)	1440	998	1860	42	999	2000	56	7	70-135	35	X

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

568179

Page 1 of 5

[illegible]

ORIGINAL COPY

Temp: 0

IR ID:R-8

CF:(0-6: -0.2°C)

(6-23: +0.2°C)

Corrected Temp:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 2 of 2

6

Project Name:						Marathon																																																																																																																	
Project Location:						(county, state) Lea County, New Mexico																																																																																																																	
Project #:																																																																																																																							
Invoice to:						Tetra Tech																																																																																																																	
Receiving Laboratory:						Xenco Midland Tx																																																																																																																	
Comments:						If TPH exceeds 100 mg/kg, Benzene exceeds 10 mg/kg, or Total BTEX exceeds 50 mg/kg run deeper samples																																																																																																																	
LAB # (LAB USE ONLY)						SAMPLE IDENTIFICATION																																																																																																																	
BH #1 (39-40) 2'BEB						SAMPLING YEAR: 2017		DATE		TIME		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)																																																																																																					
BH #1 (44-45) 2'BEB								11/7/2017				WATER		SOIL		HCL		HNO ₃																																																																																																					
BH #1 (50) 2'BEB								11/7/2017				X		X		ICE		None																																																																																																					
BH #2 (0-1')								11/7/2017				X		X		X		X																																																																																																					
BH #2 (2-3')								11/7/2017				X		X		X		X																																																																																																					
BH #2 (4-5')								11/7/2017				X		X		X		X																																																																																																					
BH #2 (6-7')								11/7/2017				X		X		X		X																																																																																																					
BH #2 (9-10')								11/7/2017				X		X		X		X																																																																																																					
BH #2 (14-15')								11/7/2017				X		X		X		X																																																																																																					
BH #2 (19-20')								11/7/2017				X		X		X		X																																																																																																					
Relinquished by:						Date:		Time:		Received by:		Date:		Time:		REMARKS:																																																																																																							
Relinquished by:						11-13-17		1110		[Signature]		11/13		11:10		STANDARD																																																																																																							
Relinquished by:						Date:		Time:		Received by:		Date:		Time:		RUSH: Same Day 24 hr 48 hr 72 hr																																																																																																							
Relinquished by:						Date:		Time:		Received by:		Date:		Time:		Special Report Limits or TRRP Report																																																																																																							
LAB USE ONLY						BTEX 8021B BTEX 80260B						TPH TX1005 (Ext to C35)						TPH 8015M (GRO - DRO - ORO - MRO)						PAH 8270C						Total Metals Ag As Ba Cd Cr Pb Se Hg						TCLP Metals Ag As Ba Cd Cr Pb Se Hg						TCLP Volatiles						TCLP Semi Volatiles						RCI						GC/MS Vol. 8260B / 624						GC/MS Semi. Vol. 8270C/625						PCB's 8082 / 608						NORM						PLM (Asbestos)						Chloride						Chloride Sulfate TDS						General Water Chemistry (see attached list)						Anion/Cation Balance						Hold					

ORIGINAL C(

Temp: 71

IR ID: R-8

CF:(0-6: -0.2°C)

(6-23: +0.2°C)

Corrected Temp: /

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:

Marathon

Site Manager:

Ike Tavaraz

Project Name:

Warren State #1

ANALYSIS REQUEST

Project Location: (county, state)
Lea County, New Mexico

Project #:

Pending

Invoice to:

Receiving Laboratory:

Xenco Midland Tx

Sampler Signature:

Mike Carmona

Comments:

If TPH exceeds 100 mg/kg, Benzene exceeds 10 mg/kg, or Total BTEX exceeds 50 mg/kg run deeper samples

LAB #
(LAB USE ONLY)

SAMPLE IDENTIFICATION

YEAR: 2017	SAMPLING		MATRIX					PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			

BH #2 (24-25')	11/7/2017		X				X			1	N
BH #2 (30')	11/7/2017		X				X			1	N
BH #2 (40')	11/7/2017		X				X			1	N
BH #2 (50')	11/7/2017		X				X			1	N
BH #3 (0-1') 1.5'BEB	11/7/2017		X				X			1	N
BH #3 (2-3') 1.5'BEB	11/7/2017		X				X			1	N
BH #3 (4-5') 1.5'BEB	11/7/2017		X				X			1	N
BH #3 (6-7') 1.5'BEB	11/7/2017		X				X			1	N
BH #3 (9-10') 1.5'BEB	11/7/2017		X				X			1	N
BH #3 (14-15') 1.5'BEB	11/7/2017		X				X			1	N

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

(Circle or Specify Method No.)

568179

LAB USE ONLY

REMARKS:

STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

3) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL CC

Temp: 9

IR ID: R-8

CF: (0-6: -0.2°C)

(6-23: +0.2°C)

Corrected Temp: 7

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Suite
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 4 of 8

Client Name: Marathon		Site Manager: Ike Tavaraz					
Project Name: Warren State #1							
Project Location: (county, state) Lea County, New Mexico		Project #: Pending					
Invoice to: <i>John Tech</i>							
Receiving Laboratory: Xenco Midland Tx		Sampler Signature: Mike Carmona					
Comments: If TPH exceeds 100 mg/kg, Benzene exceeds 10 mg/kg, or Total BTEX exceeds 50 mg/kg run deeper samples							
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2017	DATE				
	BH #3 (19-20) 1.5'BEB		11/7/2017			X	1 N
	BH #3 (24-25) 1.5'BEB		11/7/2017			X	1 N
	BH #3 (29-30) 1.5'BEB		11/7/2017			X	1 N
	BH #3 (40) 1.5'BEB		11/7/2017			X	1 N
	BH #3 (50) 1.5'BEB		11/7/2017			X	1 N
	BH #4 (0-1) 1.5'BEB		11/9/2017			X	1 N
	BH #4 (2-3) 1.5'BEB		11/9/2017			X	1 N
	BH #4 (4-5) 1.5'BEB		11/9/2017			X	1 N
	BH #4 (6-7) 1.5'BEB		11/9/2017			X	1 N
	BH #4 (9-10) 1.5'BEB		11/9/2017			X	1 N
Relinquished by: <i>[Signature]</i>		Date: 11-13-17	Time: 11:10	Received by: <i>[Signature]</i>		Date: 11/13	Time: 11:10
Relinquished by:		Date:	Time:	Received by:		Date:	Time:
Relinquished by:		Date:	Time:	Received by:		Date:	Time:

LAB USE ONLY		REMARKS:	
Sample Temperature	STANDARD		
☐ RUSH: Same Day	24 hr		
☐ Rush Charges Authorized	48 hr		
☐ Special Report Limits or TRRP Report	72 hr		

ANALYSIS REQUEST (Circle or Specify Method No.)	
BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	

ORIGINAL CO

Temp.: 9 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp.: 7

(Circle or Specify Method No.)

568179

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Marathon Site Manager: Ike Tavaraz

Project Name: Warren State #1

Project Location: (county, state) Lea County, New Mexico Project #: Pending

Invoice to: Tetra Tech

Receiving Laboratory: Xenco Midland Tx Sampler Signature: Mike Carmona

Comments: If TPH exceeds 100 mg/kg, Benzene exceeds 10 mg/kg, or Total BTEX exceeds 50 mg/kg run deeper samples

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
										YEAR: 2017		
	BH #4 (14-15) 1.5'BEB	11/9/2017		X				X			1	N
	BH #4 (19-20) 1.5'BEB	11/9/2017		X				X			1	N
	BH #5 (0-1')	11/9/2017		X				X			1	N
	BH #5 (2-3')	11/9/2017		X				X			1	N
	BH #5 (4-5')	11/9/2017		X				X			1	N
	BH #5 (6-7')	11/9/2017		X				X			1	N
	BH #5 (9-10')	11/9/2017		X				X			1	N
	BH #5 (14-15')	11/9/2017		X				X			1	N
	BH #5 (19-20')	11/9/2017		X				X			1	N
	BH #5 (24-25')	11/9/2017		X				X			1	N
Relinquished by: 		Date: 11-13-17	Time: 11:10	Received by: 		Date: 11/13	Time: 11:10					
Relinquished by:		Date:	Time:	Received by:		Date:	Time:					
Relinquished by:		Date:	Time:	Received by:		Date:	Time:					

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	

LAB USE ONLY

Sample Temperature

REMARKS: ☒ STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Flush Charges Authorized

☐ Special Report Limits or TRRP Report

HAND-DELIVERED FEDEX UPS Tracking #:

ORIGINAL CO Temp: 9 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 7

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4550
Fax (432) 682-3846

508179

Client Name: Marathon		Site Manager: Ike Tavaraz											
Project Name: Warren State #1		Project #: Pending											
Project Location: (county, state) Lea County, New Mexico		Invoice to: Tetra Tech											
Receiving Laboratory: Xenco Midland Tx		Sampler Signature: Mike Carmona											
Comments: If TPH exceeds 100 mg/kg, Benzene exceeds 10 mg/kg, or Total BTEX exceeds 50 mg/kg run deeper samples													
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)		
		YEAR: 2017	DATE		TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
	BH #6 (0-1')		11/9/2017		X			X				1 N	
	BH #6 (2-3')		11/9/2017		X			X				1 N	
	BH #6 (4-5')		11/9/2017		X			X				1 N	
	BH #6 (6-7')		11/9/2017		X			X				1 N	
	BH #6 (9-10')		11/9/2017		X			X				1 N	
	BH #6 (14-15')		11/9/2017		X			X				1 N	
	BH #6 (19-20')		11/9/2017		X			X				1 N	
	BH #6 (24-25')		11/9/2017		X			X				1 N	
	BH #6 (29-30')		11/9/2017		X			X				1 N	
	BH #6 (40')		11/9/2017		X			X				1 N	
	BH #6 (50')		11/9/2017		X			X				1 N	
Relinquished by: [Signature]		Date: 11-13-17	Time: 11:10	Received by: [Signature]	Date: 11/13	Time: 11:10							
Relinquished by:		Date:	Time:	Received by:	Date:	Time:							
Relinquished by:		Date:	Time:	Received by:	Date:	Time:							

ANALYSIS REQUEST
(Circle or Specify Method No.)

☒	BTEX 8021B	BTEX 8260B
☒	TPH TX1005 (Ext to C35)	
☐	TPH 8015M (GRO - DRO - ORO - MRO)	
☐	PAH 8270C	
☐	Total Metals Ag As Ba Cd Cr Pb Se Hg	
☐	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
☐	TCLP Volatiles	
☐	TCLP Semi Volatiles	
☐	RCI	
☐	GC/MS Vol. 8260B / 624	
☐	GC/MS Semi. Vol. 8270C/625	
☐	PCB's 8082 / 608	
☐	NORM	
☐	PLM (Asbestos)	
☐	Chloride	
☐	Chloride Sulfate TDS	
☐	General Water Chemistry (see attached list)	
☐	Anion/Cation Balance	
☐	Hold	

LAB USE ONLY

REMARKS:

☒ STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Flush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Temp: 9
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: .7

IR ID: R-8

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Marathon Site Manager: Ike Tavaraz

Project Name: Warren State #1

Project Location: (county, state) Lea County, New Mexico Project #: Pending

Invoice to: Tetra Tech

Receiving Laboratory: Xenco Midland Tx Sampler Signature: Mike Carmona

Comments: If TPH exceeds 100 mg/kg, Benzene exceeds 10 mg/kg, or Total BTEX exceeds 50 mg/kg run deeper samples

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE			None
	BH #6 (55')	11/9/2017		X				X			1 N	
	BH #7 (0-1')	11/9/2017		X				X			1 N	
	BH #7 (2-3')	11/9/2017		X				X			1 N	
	BH #7 (4-5')	11/9/2017		X				X			1 N	
	BH #7 (6-7')	11/9/2017		X				X			1 N	
	BH #7 (9-10')	11/9/2017		X				X			1 N	
	BH #7 (14-15')	11/9/2017		X				X			1 N	
	BH #7 (19-20')	11/9/2017		X				X			1 N	
	BH #7 (24-25')	11/9/2017		X				X			1 N	
	BH #7 (29-30')	11/9/2017		X				X			1 N	
Relinquished by:	Date: Time:	Received by:	Date: Time:									
Relinquished by:	Date: Time:	Received by:	Date: Time:									
Relinquished by:	Date: Time:	Received by:	Date: Time:									

LAB USE ONLY	BTEX 8021B	BTEX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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ANALYSIS REQUEST
(Circle or Specify Method No.)

548179

LAB USE ONLY	REMARKS:	☒ STANDARD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Temp: 9
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 7

IR ID: R-8

Analysis Request of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

568179

Client Name: Marathon		Site Manager: Ike Tavaraz					
Project Name: Warren State #1							
Project Location: (county, state) Lea County, New Mexico		Project #: Pending					
Invoice to: <i>Tetra Tech</i>							
Receiving Laboratory: Xenco Midland Tx		Sampler Signature: Mike Carmona					
Comments: If TPH exceeds 100 mg/kg, Benzene exceeds 10 mg/kg, or Total BTEX exceeds 50 mg/kg run deeper samples							
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2017	DATE				
	BH #7 (40')	11/9/2017		X		1 N	
	BH #8 (0-1')	11/9/2017		X		1 N	
	BH #8 (2-3')	11/9/2017		X		1 N	
	BH #8 (4-5')	11/9/2017		X		1 N	
	BH #8 (6-7')	11/9/2017		X		1 N	
	BH #8 (9-10')	11/9/2017		X		1 N	
	BH #8 (14-15')	11/9/2017		X		1 N	
	BH #8 (19-20')	11/9/2017		X		1 N	
	BH #8 (24-25')	11/9/2017		X		1 N	
	BH #8 (29-30')	11/9/2017		X		1 N	
Relinquished by: <i>[Signature]</i>		Date: 11/8/17	Time: 1110	Received by: <i>[Signature]</i>		Date: 11/13	Time: 11:10
Relinquished by:		Date:	Time:	Received by:		Date:	Time:
Relinquished by:		Date:	Time:	Received by:		Date:	Time:

ORIGIN, Temp: 9	IR ID: R-8
CF: (0-6: -0.2°C)	
(6-23: +0.2°C)	
Corrected Temp: .7	

LAB USE ONLY		REMARKS:	
Sample Temperature	☒ STANDARD		
	☐ RUSH: Same Day 24 hr 48 hr 72 hr		
	☐ Rush Charges Authorized		
	☐ Special Report Limits or TRRP Report		

BTEX 8021B BTEX 8260B	
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

508179

Client Name: Marathon Site Manager: Ike Tavaraz

Project Name: Warren State #1

Project Location: (county, state) Lea County, New Mexico Project #: Pending

Invoice to: Tetra Tech

Receiving Laboratory: Xenco Midland Tx Sampler Signature: Mike Carmona

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	
		YEAR: 2017		WATER	SOIL	HCL	HNO ₃	ICE	None	1 N	2 N
		DATE	TIME								
	BH #9 (0-1')	11/9/2017		X			X			1 N	
	BH #9 (2-3')	11/9/2017		X			X			1 N	
	BH #9 (4-5')	11/9/2017		X			X			1 N	
	BH #9 (6-7')	11/9/2017		X			X			1 N	
	BH #9 (9-10')	11/9/2017		X			X			1 N	
	BH #9 (14-15')	11/9/2017		X			X			1 N	
	BH #9 (19-20')	11/9/2017		X			X			1 N	
	BH #9 (24-25')	11/9/2017		X			X			1 N	
	BH #9 (29-30')	11/9/2017		X			X			1 N	
	BH #9 (40')	11/9/2017		X			X			1 N	
	BH #9 (50')	11/9/2017		X			X			1 N	

Relinquished by: [Signature] Date: 11-13-17 Time: 11:10
Relinquished by: [Signature] Date: 11-13-17 Time: 11:10
Relinquished by: [Signature] Date: 11-13-17 Time: 11:10
Received by: [Signature] Date: 11-13-17 Time: 11:10

ANALYSIS REQUEST (Circle or Specify Method No.)

☒ BTEX 8021B	☐ BTEX 8260B
☒ TPH TX1005 (Ext to C35)	
☒ TPH 8015M (GRO - DRO - ORO - MRO)	
☐ PAH 8270C	
☐ Total Metals Ag As Ba Cd Cr Pb Se Hg	
☐ TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
☐ TCLP Volatiles	
☐ TCLP Semi Volatiles	
☐ RCI	
☐ GC/MS Vol. 8260B / 624	
☐ GC/MS Semi. Vol. 8270C/625	
☐ PCB's 8082 / 608	
☐ NORM	
☐ PLM (Asbestos)	
☐ Chloride	
☐ Chloride Sulfate TDS	
☐ General Water Chemistry (see attached list)	
☐ Anion/Cation Balance	
☐ Hold	

LAB USE ONLY

REMARKS:

☒ STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature

Hand Delivered FEDEX UPS Tracking #:

Temp: 9
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 7

IR ID: R-8



Client: Tetra Tech- Midland

Date/ Time Received: 11/13/2017 11:10:00 AM

Work Order #: 568179

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Connie Hernandez

Date: 11/13/2017

Checklist reviewed by:

Gale Denman

Date: 11/15/2017



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-20421-1

Laboratory Sample Delivery Group: Lea County, New Mexico
Client Project/Site: Warren State #1

For:

Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Attn: Clint Merritt

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

10/24/2022 3:58:53 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Carmona Resources
Project/Site: Warren State #1

Laboratory Job ID: 880-20421-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Job ID: 880-20421-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-20421-1**

Receipt

The samples were received on 10/17/2022 9:23 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 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (6') (880-20421-1), CS-2 (6') (880-20421-2), CS-3 (6') (880-20421-3), CS-4 (6') (880-20421-4), CS-5 (6') (880-20421-5), CS-6 (6') (880-20421-6), CS-7 (6') (880-20421-7), CS-8 (6') (880-20421-8), CS-9 (6') (880-20421-9), CS-10 (6') (880-20421-10), CS-11 (6') (880-20421-11), CS-12 (6') (880-20421-12), CS-13 (6') (880-20421-13), CS-14 (6') (880-20421-14), CS-15 (6') (880-20421-15), CS-16 (6') (880-20421-16), CS-17 (6') (880-20421-17), CS-18 (6') (880-20421-18), CS-19 (6') (880-20421-19), CS-20 (6') (880-20421-20), CS-21 (6') (880-20421-21), CS-22 (6') (880-20421-22), CS-23 (6') (880-20421-23), CS-24 (6') (880-20421-24), CS-25 (6') (880-20421-25), CS-26 (6') (880-20421-26), CS-27 (6') (880-20421-27), CS-28 (6') (880-20421-28), CS-29 (6') (880-20421-29), CS-30 (6') (880-20421-30), CS-31 (6') (880-20421-31), CS-32 (6') (880-20421-32), CS-33 (6') (880-20421-33), CS-34 (6') (880-20421-34), CS-35 (6') (880-20421-35), CS-36 (6') (880-20421-36), CS-37 (6') (880-20421-37), CS-38 (6') (880-20421-38), CS-39 (6') (880-20421-39), CS-40 (6') (880-20421-40), CS-41 (6') (880-20421-41), CS-42 (6') (880-20421-42), CS-43 (6') (880-20421-43), CS-44 (6') (880-20421-44), SW-1 (6') (880-20421-45), SW-2 (6') (880-20421-46), SW-3 (6') (880-20421-47), SW-4 (6') (880-20421-48), SW-5 (6') (880-20421-49), SW-6 (6') (880-20421-50), SW-7 (6') (880-20421-51), SW-8 (6') (880-20421-52), SW-9 (6') (880-20421-53) and SW-10 (6') (880-20421-54).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-37160 and analytical batch 880-37450 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-26 (6') (880-20421-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-37159 and analytical batch 880-37451 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (880-20421-A-1-F MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-28 (6') (880-20421-28). 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: (LCS 880-37161/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-19 (6') (880-20421-19) and CS-20 (6') (880-20421-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-7 (6') (880-20421-51). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-37126 and analytical batch 880-37035 contained Gasoline Range

Case Narrative

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Job ID: 880-20421-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-37129 and analytical batch 880-37037 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-6 (6') (880-20421-6) and CS-7 (6') (880-20421-7). 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 880-37167 and analytical batch 880-37037 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-37167/2-A) and (LCSD 880-37167/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-26 (6') (880-20421-26) and CS-27 (6') (880-20421-27). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-29 (6') (880-20421-29) and CS-30 (6') (880-20421-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-32 (6') (880-20421-32), CS-33 (6') (880-20421-33), CS-34 (6') (880-20421-34) and CS-35 (6') (880-20421-35). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-38 (6') (880-20421-38) and CS-39 (6') (880-20421-39). 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 880-37188 and analytical batch 880-37190 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-37188 and analytical batch 880-37190 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 880-37189 and analytical batch 880-37192 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37140 and analytical batch 880-37230 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (6')

Lab Sample ID: 880-20421-1

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		10/17/22 13:32	10/22/22 01:09	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		10/17/22 13:32	10/22/22 01:09	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		10/17/22 13:32	10/22/22 01:09	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		10/17/22 13:32	10/22/22 01:09	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		10/17/22 13:32	10/22/22 01:09	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		10/17/22 13:32	10/22/22 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/17/22 13:32	10/22/22 01:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/17/22 13:32	10/22/22 01:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/17/22 10:26	10/17/22 11:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/17/22 10:26	10/17/22 11:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/17/22 10:26	10/17/22 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	10/17/22 10:26	10/17/22 11:50	1
o-Terphenyl	120		70 - 130	10/17/22 10:26	10/17/22 11:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613		4.97		mg/Kg			10/18/22 19:19	1

Client Sample ID: CS-2 (6')

Lab Sample ID: 880-20421-2

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 01:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 01:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 01:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/17/22 13:32	10/22/22 01:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 01:29	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/17/22 13:32	10/22/22 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/17/22 13:32	10/22/22 01:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/17/22 13:32	10/22/22 01:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-2 (6')

Lab Sample ID: 880-20421-2

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	299		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 12:54	1
Diesel Range Organics (Over C10-C28)	299		49.9		mg/Kg		10/17/22 10:26	10/17/22 12:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				10/17/22 10:26	10/17/22 12:54	1
o-Terphenyl	118		70 - 130				10/17/22 10:26	10/17/22 12:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	664		5.00		mg/Kg			10/18/22 19:24	1

Client Sample ID: CS-3 (6')

Lab Sample ID: 880-20421-3

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 01:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 01:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 01:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:32	10/22/22 01:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 01:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:32	10/22/22 01:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				10/17/22 13:32	10/22/22 01:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130				10/17/22 13:32	10/22/22 01:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/17/22 10:26	10/17/22 13:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/17/22 10:26	10/17/22 13:16	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-3 (6')

Lab Sample ID: 880-20421-3

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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		10/17/22 10:26	10/17/22 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				10/17/22 10:26	10/17/22 13:16	1
o-Terphenyl	113		70 - 130				10/17/22 10:26	10/17/22 13:16	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		5.03		mg/Kg			10/18/22 19:28	1

Client Sample ID: CS-4 (6')

Lab Sample ID: 880-20421-4

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 02:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 02:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 02:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/17/22 13:32	10/22/22 02:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 02:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/17/22 13:32	10/22/22 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/17/22 13:32	10/22/22 02:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130				10/17/22 13:32	10/22/22 02:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	327		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 13:37	1
Diesel Range Organics (Over C10-C28)	327		49.9		mg/Kg		10/17/22 10:26	10/17/22 13:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				10/17/22 10:26	10/17/22 13:37	1
o-Terphenyl	122		70 - 130				10/17/22 10:26	10/17/22 13:37	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		5.01		mg/Kg			10/18/22 19:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-5 (6')

Lab Sample ID: 880-20421-5

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 02:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 02:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 02:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:32	10/22/22 02:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 02:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:32	10/22/22 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/17/22 13:32	10/22/22 02:31	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/17/22 13:32	10/22/22 02:31	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			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1260		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	158		49.9		mg/Kg		10/17/22 10:26	10/17/22 13:59	1
Diesel Range Organics (Over C10-C28)	998		49.9		mg/Kg		10/17/22 10:26	10/17/22 13:59	1
Oil Range Organics (Over C28-C36)	103		49.9		mg/Kg		10/17/22 10:26	10/17/22 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	10/17/22 10:26	10/17/22 13:59	1
o-Terphenyl	129		70 - 130	10/17/22 10:26	10/17/22 13:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		25.3		mg/Kg			10/18/22 19:48	5

Client Sample ID: CS-6 (6')

Lab Sample ID: 880-20421-6

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 02:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 02:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 02:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 13:32	10/22/22 02:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 02:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 13:32	10/22/22 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/17/22 13:32	10/22/22 02:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/17/22 13:32	10/22/22 02:51	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-6 (6')

Lab Sample ID: 880-20421-6

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	503		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	91.7		49.9		mg/Kg		10/17/22 10:26	10/17/22 14:20	1
Diesel Range Organics (Over C10-C28)	411		49.9		mg/Kg		10/17/22 10:26	10/17/22 14:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				10/17/22 10:26	10/17/22 14:20	1
o-Terphenyl	134	S1+	70 - 130				10/17/22 10:26	10/17/22 14:20	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1560		25.0		mg/Kg			10/18/22 19:53	5

Client Sample ID: CS-7 (6')

Lab Sample ID: 880-20421-7

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 03:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 03:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 03:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/17/22 13:32	10/22/22 03:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 03:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/17/22 13:32	10/22/22 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				10/17/22 13:32	10/22/22 03:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/17/22 13:32	10/22/22 03:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	309		50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 14:42	1
Diesel Range Organics (Over C10-C28)	309		50.0		mg/Kg		10/17/22 10:26	10/17/22 14:42	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (6')

Lab Sample ID: 880-20421-7

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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		10/17/22 10:26	10/17/22 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				10/17/22 10:26	10/17/22 14:42	1
o-Terphenyl	136	S1+	70 - 130				10/17/22 10:26	10/17/22 14:42	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		4.96		mg/Kg			10/18/22 19:58	1

Client Sample ID: CS-8 (6')

Lab Sample ID: 880-20421-8

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 03:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 03:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 03:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/17/22 13:32	10/22/22 03:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 03:32	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/17/22 13:32	10/22/22 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				10/17/22 13:32	10/22/22 03:32	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/17/22 13:32	10/22/22 03:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 15:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 15:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				10/17/22 10:26	10/17/22 15:03	1
o-Terphenyl	120		70 - 130				10/17/22 10:26	10/17/22 15:03	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		5.02		mg/Kg			10/18/22 20:02	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-9 (6')

Lab Sample ID: 880-20421-9

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 03:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 03:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 03:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:32	10/22/22 03:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 03:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:32	10/22/22 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/17/22 13:32	10/22/22 03:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/17/22 13:32	10/22/22 03:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/17/22 10:26	10/17/22 15:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/17/22 10:26	10/17/22 15:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/17/22 10:26	10/17/22 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	10/17/22 10:26	10/17/22 15:24	1
o-Terphenyl	130		70 - 130	10/17/22 10:26	10/17/22 15:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	273		5.03		mg/Kg			10/18/22 20:07	1

Client Sample ID: CS-10 (6')

Lab Sample ID: 880-20421-10

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 04:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 04:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 04:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 13:32	10/22/22 04:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 04:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 13:32	10/22/22 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/17/22 13:32	10/22/22 04:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/17/22 13:32	10/22/22 04:13	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-10 (6')

Lab Sample ID: 880-20421-10

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 15:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 15:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				10/17/22 10:26	10/17/22 15:46	1
o-Terphenyl	126		70 - 130				10/17/22 10:26	10/17/22 15:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		25.0		mg/Kg			10/18/22 20:12	5

Client Sample ID: CS-11 (6')

Lab Sample ID: 880-20421-11

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 06:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 06:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 06:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/17/22 13:32	10/22/22 06:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:32	10/22/22 06:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/17/22 13:32	10/22/22 06:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				10/17/22 13:32	10/22/22 06:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130				10/17/22 13:32	10/22/22 06:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 16:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 16:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-11 (6')

Lab Sample ID: 880-20421-11

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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		10/17/22 10:26	10/17/22 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				10/17/22 10:26	10/17/22 16:29	1
o-Terphenyl	122		70 - 130				10/17/22 10:26	10/17/22 16:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		50.4		mg/Kg			10/18/22 20:27	10

Client Sample ID: CS-12 (6')

Lab Sample ID: 880-20421-12

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 06:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 06:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 06:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/17/22 13:32	10/22/22 06:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 06:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/17/22 13:32	10/22/22 06:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/17/22 13:32	10/22/22 06:23	1
1,4-Difluorobenzene (Surr)	97		70 - 130				10/17/22 13:32	10/22/22 06:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 16:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 16:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				10/17/22 10:26	10/17/22 16:50	1
o-Terphenyl	113		70 - 130				10/17/22 10:26	10/17/22 16:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2010		50.2		mg/Kg			10/18/22 20:32	10

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-13 (6')

Lab Sample ID: 880-20421-13

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 06:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 06:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 06:43	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/17/22 13:32	10/22/22 06:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:32	10/22/22 06:43	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/17/22 13:32	10/22/22 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/17/22 13:32	10/22/22 06:43	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/17/22 13:32	10/22/22 06:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 17:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 17:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	10/17/22 10:26	10/17/22 17:11	1
o-Terphenyl	116		70 - 130	10/17/22 10:26	10/17/22 17:11	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2820		50.0		mg/Kg			10/18/22 20:46	10

Client Sample ID: CS-14 (6')

Lab Sample ID: 880-20421-14

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 07:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 07:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 07:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:32	10/22/22 07:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:32	10/22/22 07:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:32	10/22/22 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/17/22 13:32	10/22/22 07:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/17/22 13:32	10/22/22 07:03	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-14 (6')

Lab Sample ID: 880-20421-14

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.6		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 17:33	1
Diesel Range Organics (Over C10-C28)	70.6		49.9		mg/Kg		10/17/22 10:26	10/17/22 17:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				10/17/22 10:26	10/17/22 17:33	1
o-Terphenyl	124		70 - 130				10/17/22 10:26	10/17/22 17:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2510		50.0		mg/Kg			10/18/22 20:51	10

Client Sample ID: CS-15 (6')

Lab Sample ID: 880-20421-15

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 07:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 07:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 07:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/22 13:32	10/22/22 07:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 07:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/22 13:32	10/22/22 07:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				10/17/22 13:32	10/22/22 07:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130				10/17/22 13:32	10/22/22 07:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 17:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 17:54	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-15 (6')

Lab Sample ID: 880-20421-15

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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		10/17/22 10:26	10/17/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				10/17/22 10:26	10/17/22 17:54	1
o-Terphenyl	130		70 - 130				10/17/22 10:26	10/17/22 17:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		5.04		mg/Kg			10/18/22 20:56	1

Client Sample ID: CS-16 (6')

Lab Sample ID: 880-20421-16

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 07:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 07:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 07:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 13:32	10/22/22 07:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:32	10/22/22 07:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 13:32	10/22/22 07:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				10/17/22 13:32	10/22/22 07:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130				10/17/22 13:32	10/22/22 07:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 18:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 18:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				10/17/22 10:26	10/17/22 18:21	1
o-Terphenyl	112		70 - 130				10/17/22 10:26	10/17/22 18:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		5.05		mg/Kg			10/18/22 21:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-17 (6')

Lab Sample ID: 880-20421-17

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 08:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 08:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 08:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/17/22 13:32	10/22/22 08:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 08:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/17/22 13:32	10/22/22 08:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/17/22 13:32	10/22/22 08:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/17/22 13:32	10/22/22 08:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 18:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 18:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/17/22 10:26	10/17/22 18:42	1
o-Terphenyl	120		70 - 130	10/17/22 10:26	10/17/22 18:42	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	462		5.04		mg/Kg			10/18/22 21:06	1

Client Sample ID: CS-18 (6')

Lab Sample ID: 880-20421-18

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0403	U	0.0403		mg/Kg		10/17/22 13:32	10/22/22 08:25	20
Toluene	<0.0403	U	0.0403		mg/Kg		10/17/22 13:32	10/22/22 08:25	20
Ethylbenzene	<0.0403	U	0.0403		mg/Kg		10/17/22 13:32	10/22/22 08:25	20
m-Xylene & p-Xylene	<0.0806	U	0.0806		mg/Kg		10/17/22 13:32	10/22/22 08:25	20
o-Xylene	<0.0403	U	0.0403		mg/Kg		10/17/22 13:32	10/22/22 08:25	20
Xylenes, Total	<0.0806	U	0.0806		mg/Kg		10/17/22 13:32	10/22/22 08:25	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	10/17/22 13:32	10/22/22 08:25	20
1,4-Difluorobenzene (Surr)	83		70 - 130	10/17/22 13:32	10/22/22 08:25	20

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-18 (6')

Lab Sample ID: 880-20421-18

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0806	U	0.0806		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.6		50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 19:03	1
Diesel Range Organics (Over C10-C28)	59.6		50.0		mg/Kg		10/17/22 10:26	10/17/22 19:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				10/17/22 10:26	10/17/22 19:03	1
o-Terphenyl	126		70 - 130				10/17/22 10:26	10/17/22 19:03	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	359		4.96		mg/Kg			10/18/22 21:10	1

Client Sample ID: CS-19 (6')

Lab Sample ID: 880-20421-19

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U	0.0199		mg/Kg		10/17/22 13:32	10/22/22 08:46	10
Toluene	<0.0199	U	0.0199		mg/Kg		10/17/22 13:32	10/22/22 08:46	10
Ethylbenzene	0.132		0.0199		mg/Kg		10/17/22 13:32	10/22/22 08:46	10
m-Xylene & p-Xylene	<0.0398	U	0.0398		mg/Kg		10/17/22 13:32	10/22/22 08:46	10
o-Xylene	0.231		0.0199		mg/Kg		10/17/22 13:32	10/22/22 08:46	10
Xylenes, Total	0.231		0.0398		mg/Kg		10/17/22 13:32	10/22/22 08:46	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				10/17/22 13:32	10/22/22 08:46	10
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130				10/17/22 13:32	10/22/22 08:46	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.363		0.0398		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	489		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 19:24	1
Diesel Range Organics (Over C10-C28)	406		49.9		mg/Kg		10/17/22 10:26	10/17/22 19:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-19 (6')

Lab Sample ID: 880-20421-19

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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)	82.8		49.9		mg/Kg		10/17/22 10:26	10/17/22 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				10/17/22 10:26	10/17/22 19:24	1
o-Terphenyl	120		70 - 130				10/17/22 10:26	10/17/22 19:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	454		4.95		mg/Kg			10/18/22 21:16	1

Client Sample ID: CS-20 (6')

Lab Sample ID: 880-20421-20

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200		mg/Kg		10/17/22 13:32	10/22/22 09:06	10
Toluene	<0.0200	U	0.0200		mg/Kg		10/17/22 13:32	10/22/22 09:06	10
Ethylbenzene	0.173		0.0200		mg/Kg		10/17/22 13:32	10/22/22 09:06	10
m-Xylene & p-Xylene	0.0462		0.0400		mg/Kg		10/17/22 13:32	10/22/22 09:06	10
o-Xylene	0.269		0.0200		mg/Kg		10/17/22 13:32	10/22/22 09:06	10
Xylenes, Total	0.315		0.0400		mg/Kg		10/17/22 13:32	10/22/22 09:06	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				10/17/22 13:32	10/22/22 09:06	10
1,4-Difluorobenzene (Surr)	76		70 - 130				10/17/22 13:32	10/22/22 09:06	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.488		0.0400		mg/Kg			10/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	186		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	95.1		49.9		mg/Kg		10/17/22 10:26	10/17/22 19:45	1
Diesel Range Organics (Over C10-C28)	90.4		49.9		mg/Kg		10/17/22 10:26	10/17/22 19:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 10:26	10/17/22 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				10/17/22 10:26	10/17/22 19:45	1
o-Terphenyl	112		70 - 130				10/17/22 10:26	10/17/22 19:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	477		4.99		mg/Kg			10/19/22 02:32	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-21 (6')

Lab Sample ID: 880-20421-21

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.225		0.0505		mg/Kg		10/17/22 13:35	10/21/22 13:07	25
Toluene	0.0732		0.0505		mg/Kg		10/17/22 13:35	10/21/22 13:07	25
Ethylbenzene	<0.0505	U	0.0505		mg/Kg		10/17/22 13:35	10/21/22 13:07	25
m-Xylene & p-Xylene	<0.101	U	0.101		mg/Kg		10/17/22 13:35	10/21/22 13:07	25
o-Xylene	<0.0505	U	0.0505		mg/Kg		10/17/22 13:35	10/21/22 13:07	25
Xylenes, Total	<0.101	U	0.101		mg/Kg		10/17/22 13:35	10/21/22 13:07	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				10/17/22 13:35	10/21/22 13:07	25
1,4-Difluorobenzene (Surr)	109		70 - 130				10/17/22 13:35	10/21/22 13:07	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.298		0.101		mg/Kg			10/21/22 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	485		49.8		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/17/22 15:07	10/17/22 21:32	1
Diesel Range Organics (Over C10-C28)	485		49.8		mg/Kg		10/17/22 15:07	10/17/22 21:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/17/22 15:07	10/17/22 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				10/17/22 15:07	10/17/22 21:32	1
o-Terphenyl	114		70 - 130				10/17/22 15:07	10/17/22 21:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322		4.95		mg/Kg			10/19/22 02:46	1

Client Sample ID: CS-22 (6')

Lab Sample ID: 880-20421-22

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 11:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 11:24	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		10/17/22 13:35	10/21/22 11:24	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		10/17/22 13:35	10/21/22 11:24	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		10/17/22 13:35	10/21/22 11:24	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		10/17/22 13:35	10/21/22 11:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				10/17/22 13:35	10/21/22 11:24	1
1,4-Difluorobenzene (Surr)	110		70 - 130				10/17/22 13:35	10/21/22 11:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-22 (6')

Lab Sample ID: 880-20421-22

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/21/22 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	468		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/17/22 22:37	1
Diesel Range Organics (Over C10-C28)	468		49.9		mg/Kg		10/17/22 15:07	10/17/22 22:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/17/22 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				10/17/22 15:07	10/17/22 22:37	1
o-Terphenyl	111		70 - 130				10/17/22 15:07	10/17/22 22:37	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		5.00		mg/Kg			10/19/22 02:51	1

Client Sample ID: CS-23 (6')

Lab Sample ID: 880-20421-23

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/17/22 13:35	10/21/22 11:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/17/22 13:35	10/21/22 11:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				10/17/22 13:35	10/21/22 11:45	1
1,4-Difluorobenzene (Surr)	87		70 - 130				10/17/22 13:35	10/21/22 11:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/21/22 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.1		49.8		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/17/22 15:07	10/17/22 22:58	1
Diesel Range Organics (Over C10-C28)	61.1		49.8		mg/Kg		10/17/22 15:07	10/17/22 22:58	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-23 (6')

Lab Sample ID: 880-20421-23

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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		10/17/22 15:07	10/17/22 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				10/17/22 15:07	10/17/22 22:58	1
o-Terphenyl	104		70 - 130				10/17/22 15:07	10/17/22 22:58	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287		4.99		mg/Kg			10/19/22 02:56	1

Client Sample ID: CS-24 (6')

Lab Sample ID: 880-20421-24

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 12:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 12:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 12:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 13:35	10/21/22 12:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 12:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 13:35	10/21/22 12:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/17/22 13:35	10/21/22 12:05	1
1,4-Difluorobenzene (Surr)	99		70 - 130				10/17/22 13:35	10/21/22 12:05	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			10/21/22 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.6		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/17/22 23:20	1
Diesel Range Organics (Over C10-C28)	67.6		49.9		mg/Kg		10/17/22 15:07	10/17/22 23:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/17/22 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				10/17/22 15:07	10/17/22 23:20	1
o-Terphenyl	119		70 - 130				10/17/22 15:07	10/17/22 23:20	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	427		5.04		mg/Kg			10/19/22 03:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-25 (6')

Lab Sample ID: 880-20421-25

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.204		0.0396		mg/Kg		10/17/22 13:35	10/21/22 13:27	20
Toluene	0.0486		0.0396		mg/Kg		10/17/22 13:35	10/21/22 13:27	20
Ethylbenzene	0.177		0.0396		mg/Kg		10/17/22 13:35	10/21/22 13:27	20
m-Xylene & p-Xylene	0.384		0.0792		mg/Kg		10/17/22 13:35	10/21/22 13:27	20
o-Xylene	0.130		0.0396		mg/Kg		10/17/22 13:35	10/21/22 13:27	20
Xylenes, Total	0.514		0.0792		mg/Kg		10/17/22 13:35	10/21/22 13:27	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/17/22 13:35	10/21/22 13:27	20
1,4-Difluorobenzene (Surr)	104		70 - 130	10/17/22 13:35	10/21/22 13:27	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.944		0.0792		mg/Kg			10/21/22 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2580		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/17/22 23:42	1
Diesel Range Organics (Over C10-C28)	2420		49.9		mg/Kg		10/17/22 15:07	10/17/22 23:42	1
Oil Range Organics (Over C28-C36)	160		49.9		mg/Kg		10/17/22 15:07	10/17/22 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	10/17/22 15:07	10/17/22 23:42	1
o-Terphenyl	127		70 - 130	10/17/22 15:07	10/17/22 23:42	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	702		4.97		mg/Kg			10/19/22 03:16	1

Client Sample ID: CS-26 (6')

Lab Sample ID: 880-20421-26

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.171		0.0398		mg/Kg		10/17/22 13:35	10/21/22 13:48	20
Toluene	0.0498		0.0398		mg/Kg		10/17/22 13:35	10/21/22 13:48	20
Ethylbenzene	0.198		0.0398		mg/Kg		10/17/22 13:35	10/21/22 13:48	20
m-Xylene & p-Xylene	0.588		0.0797		mg/Kg		10/17/22 13:35	10/21/22 13:48	20
o-Xylene	0.224		0.0398		mg/Kg		10/17/22 13:35	10/21/22 13:48	20
Xylenes, Total	0.812		0.0797		mg/Kg		10/17/22 13:35	10/21/22 13:48	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	213	S1+	70 - 130	10/17/22 13:35	10/21/22 13:48	20
1,4-Difluorobenzene (Surr)	100		70 - 130	10/17/22 13:35	10/21/22 13:48	20

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-26 (6')

Lab Sample ID: 880-20421-26

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.23		0.0797		mg/Kg			10/21/22 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3400		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	61.4		49.9		mg/Kg		10/17/22 15:07	10/18/22 00:04	1
Diesel Range Organics (Over C10-C28)	3120		49.9		mg/Kg		10/17/22 15:07	10/18/22 00:04	1
Oil Range Organics (Over C28-C36)	215		49.9		mg/Kg		10/17/22 15:07	10/18/22 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				10/17/22 15:07	10/18/22 00:04	1
o-Terphenyl	131	S1+	70 - 130				10/17/22 15:07	10/18/22 00:04	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	783		5.00		mg/Kg			10/19/22 03:20	1

Client Sample ID: CS-27 (6')

Lab Sample ID: 880-20421-27

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.174		0.0398		mg/Kg		10/17/22 13:35	10/21/22 14:08	20
Toluene	0.0434		0.0398		mg/Kg		10/17/22 13:35	10/21/22 14:08	20
Ethylbenzene	0.195		0.0398		mg/Kg		10/17/22 13:35	10/21/22 14:08	20
m-Xylene & p-Xylene	0.568		0.0795		mg/Kg		10/17/22 13:35	10/21/22 14:08	20
o-Xylene	0.374		0.0398		mg/Kg		10/17/22 13:35	10/21/22 14:08	20
Xylenes, Total	0.942		0.0795		mg/Kg		10/17/22 13:35	10/21/22 14:08	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				10/17/22 13:35	10/21/22 14:08	20
1,4-Difluorobenzene (Surr)	105		70 - 130				10/17/22 13:35	10/21/22 14:08	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.35		0.0795		mg/Kg			10/21/22 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3490		50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	110		50.0		mg/Kg		10/17/22 15:07	10/18/22 00:25	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-27 (6')

Lab Sample ID: 880-20421-27

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	3160		50.0		mg/Kg		10/17/22 15:07	10/18/22 00:25	1
Oil Range Organics (Over C28-C36)	216		50.0		mg/Kg		10/17/22 15:07	10/18/22 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				10/17/22 15:07	10/18/22 00:25	1
o-Terphenyl	141	S1+	70 - 130				10/17/22 15:07	10/18/22 00:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	531		5.01		mg/Kg			10/19/22 03:25	1

Client Sample ID: CS-28 (6')

Lab Sample ID: 880-20421-28

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.166		0.0401		mg/Kg		10/17/22 13:35	10/21/22 14:29	20
Toluene	0.0614		0.0401		mg/Kg		10/17/22 13:35	10/21/22 14:29	20
Ethylbenzene	0.395		0.0401		mg/Kg		10/17/22 13:35	10/21/22 14:29	20
m-Xylene & p-Xylene	1.97		0.0802		mg/Kg		10/17/22 13:35	10/21/22 14:29	20
o-Xylene	1.12		0.0401		mg/Kg		10/17/22 13:35	10/21/22 14:29	20
Xylenes, Total	3.09		0.0802		mg/Kg		10/17/22 13:35	10/21/22 14:29	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	193	S1+	70 - 130				10/17/22 13:35	10/21/22 14:29	20
1,4-Difluorobenzene (Surr)	100		70 - 130				10/17/22 13:35	10/21/22 14:29	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.71		0.0802		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3810		50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	143		50.0		mg/Kg		10/17/22 15:07	10/18/22 00:46	1
Diesel Range Organics (Over C10-C28)	3430		50.0		mg/Kg		10/17/22 15:07	10/18/22 00:46	1
Oil Range Organics (Over C28-C36)	234		50.0		mg/Kg		10/17/22 15:07	10/18/22 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				10/17/22 15:07	10/18/22 00:46	1
o-Terphenyl	129		70 - 130				10/17/22 15:07	10/18/22 00:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-28 (6')

Lab Sample ID: 880-20421-28

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	533		4.98		mg/Kg			10/19/22 03:30	1

Client Sample ID: CS-29 (6')

Lab Sample ID: 880-20421-29

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 12:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 12:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 12:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 13:35	10/21/22 12:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 12:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 13:35	10/21/22 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/17/22 13:35	10/21/22 12:26	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/17/22 13:35	10/21/22 12:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/21/22 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2180		50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 15:07	10/18/22 01:08	1
Diesel Range Organics (Over C10-C28)	2030		50.0		mg/Kg		10/17/22 15:07	10/18/22 01:08	1
Oil Range Organics (Over C28-C36)	149		50.0		mg/Kg		10/17/22 15:07	10/18/22 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	10/17/22 15:07	10/18/22 01:08	1
o-Terphenyl	140	S1+	70 - 130	10/17/22 15:07	10/18/22 01:08	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		4.95		mg/Kg			10/19/22 03:35	1

Client Sample ID: CS-30 (6')

Lab Sample ID: 880-20421-30

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 12:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 12:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 12:46	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-30 (6')

Lab Sample ID: 880-20421-30

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/17/22 13:35	10/21/22 12:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 12:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/17/22 13:35	10/21/22 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				10/17/22 13:35	10/21/22 12:46	1
1,4-Difluorobenzene (Surr)	94		70 - 130				10/17/22 13:35	10/21/22 12:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/21/22 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2100		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 01:29	1
Diesel Range Organics (Over C10-C28)	1950		49.9		mg/Kg		10/17/22 15:07	10/18/22 01:29	1
Oil Range Organics (Over C28-C36)	151		49.9		mg/Kg		10/17/22 15:07	10/18/22 01:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				10/17/22 15:07	10/18/22 01:29	1
o-Terphenyl	134	S1+	70 - 130				10/17/22 15:07	10/18/22 01:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		5.04		mg/Kg			10/19/22 03:40	1

Client Sample ID: CS-31 (6')

Lab Sample ID: 880-20421-31

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:35	10/21/22 16:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:35	10/21/22 16:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:35	10/21/22 16:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/17/22 13:35	10/21/22 16:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:35	10/21/22 16:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/17/22 13:35	10/21/22 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/17/22 13:35	10/21/22 16:00	1
1,4-Difluorobenzene (Surr)	95		70 - 130				10/17/22 13:35	10/21/22 16:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/24/22 16:16	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-31 (6')

Lab Sample ID: 880-20421-31

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 02:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 02:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				10/17/22 15:07	10/18/22 02:12	1
o-Terphenyl	130		70 - 130				10/17/22 15:07	10/18/22 02:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		5.00		mg/Kg			10/19/22 03:54	1

Client Sample ID: CS-32 (6')

Lab Sample ID: 880-20421-32

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 16:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 16:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 16:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:35	10/21/22 16:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 16:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:35	10/21/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				10/17/22 13:35	10/21/22 16:39	1
1,4-Difluorobenzene (Surr)	92		70 - 130				10/17/22 13:35	10/21/22 16:39	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			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 15:07	10/18/22 02:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/22 15:07	10/18/22 02:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 15:07	10/18/22 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				10/17/22 15:07	10/18/22 02:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-32 (6')

Lab Sample ID: 880-20421-32

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	131	S1+	70 - 130	10/17/22 15:07	10/18/22 02:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		5.01		mg/Kg			10/19/22 03:59	1

Client Sample ID: CS-33 (6')

Lab Sample ID: 880-20421-33

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 16:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 16:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 16:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:35	10/21/22 16:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 16:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:35	10/21/22 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				10/17/22 13:35	10/21/22 16:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/17/22 13:35	10/21/22 16:59	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			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	137		50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 15:07	10/18/22 02:55	1
Diesel Range Organics (Over C10-C28)	137		50.0		mg/Kg		10/17/22 15:07	10/18/22 02:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 15:07	10/18/22 02:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				10/17/22 15:07	10/18/22 02:55	1
o-Terphenyl	133	S1+	70 - 130				10/17/22 15:07	10/18/22 02:55	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		25.2		mg/Kg			10/19/22 04:14	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-34 (6')

Lab Sample ID: 880-20421-34

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 17:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 17:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 17:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/17/22 13:35	10/21/22 17:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 17:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/17/22 13:35	10/21/22 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/17/22 13:35	10/21/22 17:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/17/22 13:35	10/21/22 17:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	129		49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 03:16	1
Diesel Range Organics (Over C10-C28)	129		49.9		mg/Kg		10/17/22 15:07	10/18/22 03:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 03:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				10/17/22 15:07	10/18/22 03:16	1
o-Terphenyl	134	S1+	70 - 130				10/17/22 15:07	10/18/22 03:16	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		4.99		mg/Kg			10/19/22 04:19	1

Client Sample ID: CS-35 (6')

Lab Sample ID: 880-20421-35

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:35	10/21/22 17:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:35	10/21/22 17:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:35	10/21/22 17:40	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/17/22 13:35	10/21/22 17:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:35	10/21/22 17:40	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/17/22 13:35	10/21/22 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/17/22 13:35	10/21/22 17:40	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/17/22 13:35	10/21/22 17:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-35 (6')

Lab Sample ID: 880-20421-35

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	967		50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 15:07	10/18/22 03:37	1
Diesel Range Organics (Over C10-C28)	900		50.0		mg/Kg		10/17/22 15:07	10/18/22 03:37	1
Oil Range Organics (Over C28-C36)	66.9		50.0		mg/Kg		10/17/22 15:07	10/18/22 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				10/17/22 15:07	10/18/22 03:37	1
o-Terphenyl	133	S1+	70 - 130				10/17/22 15:07	10/18/22 03:37	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	336		5.00		mg/Kg			10/19/22 04:24	1

Client Sample ID: CS-36 (6')

Lab Sample ID: 880-20421-36

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 18:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 18:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 18:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 13:35	10/21/22 18:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 18:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 13:35	10/21/22 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				10/17/22 13:35	10/21/22 18:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130				10/17/22 13:35	10/21/22 18:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1020		50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 15:07	10/18/22 03:58	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-36 (6')

Lab Sample ID: 880-20421-36

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	950		50.0		mg/Kg		10/17/22 15:07	10/18/22 03:58	1
Oil Range Organics (Over C28-C36)	71.0		50.0		mg/Kg		10/17/22 15:07	10/18/22 03:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				10/17/22 15:07	10/18/22 03:58	1
o-Terphenyl	128		70 - 130				10/17/22 15:07	10/18/22 03:58	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	346		5.02		mg/Kg			10/19/22 04:29	1

Client Sample ID: CS-37 (6')

Lab Sample ID: 880-20421-37

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 18:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 18:21	1
Ethylbenzene	0.00996		0.00200		mg/Kg		10/17/22 13:35	10/21/22 18:21	1
m-Xylene & p-Xylene	0.0181		0.00401		mg/Kg		10/17/22 13:35	10/21/22 18:21	1
o-Xylene	0.00545		0.00200		mg/Kg		10/17/22 13:35	10/21/22 18:21	1
Xylenes, Total	0.0236		0.00401		mg/Kg		10/17/22 13:35	10/21/22 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				10/17/22 13:35	10/21/22 18:21	1
1,4-Difluorobenzene (Surr)	102		70 - 130				10/17/22 13:35	10/21/22 18:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0335		0.00401		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1830		50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	50.9		50.0		mg/Kg		10/17/22 15:07	10/18/22 04:20	1
Diesel Range Organics (Over C10-C28)	1660		50.0		mg/Kg		10/17/22 15:07	10/18/22 04:20	1
Oil Range Organics (Over C28-C36)	115		50.0		mg/Kg		10/17/22 15:07	10/18/22 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				10/17/22 15:07	10/18/22 04:20	1
o-Terphenyl	124		70 - 130				10/17/22 15:07	10/18/22 04:20	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-37 (6')

Lab Sample ID: 880-20421-37

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		4.95		mg/Kg			10/19/22 04:34	1

Client Sample ID: CS-38 (6')

Lab Sample ID: 880-20421-38

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:35	10/21/22 18:41	1
Toluene	0.00616		0.00201		mg/Kg		10/17/22 13:35	10/21/22 18:41	1
Ethylbenzene	0.00936		0.00201		mg/Kg		10/17/22 13:35	10/21/22 18:41	1
m-Xylene & p-Xylene	0.0125		0.00402		mg/Kg		10/17/22 13:35	10/21/22 18:41	1
o-Xylene	0.00892		0.00201		mg/Kg		10/17/22 13:35	10/21/22 18:41	1
Xylenes, Total	0.0214		0.00402		mg/Kg		10/17/22 13:35	10/21/22 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/17/22 13:35	10/21/22 18:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/17/22 13:35	10/21/22 18:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0369		0.00402		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2100		50.0		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	59.9		50.0		mg/Kg		10/17/22 15:07	10/18/22 04:41	1
Diesel Range Organics (Over C10-C28)	1910		50.0		mg/Kg		10/17/22 15:07	10/18/22 04:41	1
Oil Range Organics (Over C28-C36)	135		50.0		mg/Kg		10/17/22 15:07	10/18/22 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	10/17/22 15:07	10/18/22 04:41	1
o-Terphenyl	142	S1+	70 - 130	10/17/22 15:07	10/18/22 04:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	278		4.98		mg/Kg			10/19/22 04:39	1

Client Sample ID: CS-39 (6')

Lab Sample ID: 880-20421-39

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:35	10/21/22 19:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:35	10/21/22 19:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:35	10/21/22 19:02	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-39 (6')

Lab Sample ID: 880-20421-39

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/17/22 13:35	10/21/22 19:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:35	10/21/22 19:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/17/22 13:35	10/21/22 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				10/17/22 13:35	10/21/22 19:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130				10/17/22 13:35	10/21/22 19:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 05:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 05:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				10/17/22 15:07	10/18/22 05:02	1
o-Terphenyl	136	S1+	70 - 130				10/17/22 15:07	10/18/22 05:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		25.2		mg/Kg			10/19/22 04:43	5

Client Sample ID: CS-40 (6')

Lab Sample ID: 880-20421-40

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 19:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 19:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 19:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:35	10/21/22 19:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:35	10/21/22 19:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:35	10/21/22 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				10/17/22 13:35	10/21/22 19:22	1
1,4-Difluorobenzene (Surr)	92		70 - 130				10/17/22 13:35	10/21/22 19:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 16:16	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-40 (6')

Lab Sample ID: 880-20421-40

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/18/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 05:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 05:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 15:07	10/18/22 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				10/17/22 15:07	10/18/22 05:23	1
o-Terphenyl	128		70 - 130				10/17/22 15:07	10/18/22 05:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1220		25.2		mg/Kg			10/18/22 23:56	5

Client Sample ID: CS-41 (6')

Lab Sample ID: 880-20421-41

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:39	10/22/22 20:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:39	10/22/22 20:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:39	10/22/22 20:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/17/22 13:39	10/22/22 20:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/17/22 13:39	10/22/22 20:24	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/17/22 13:39	10/22/22 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				10/17/22 13:39	10/22/22 20:24	1
1,4-Difluorobenzene (Surr)	103		70 - 130				10/17/22 13:39	10/22/22 20:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/19/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		10/18/22 08:38	10/18/22 11:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/18/22 08:38	10/18/22 11:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/18/22 08:38	10/18/22 11:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				10/18/22 08:38	10/18/22 11:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-41 (6')

Lab Sample ID: 880-20421-41

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		70 - 130	10/18/22 08:38	10/18/22 11:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		5.00		mg/Kg			10/19/22 00:11	1

Client Sample ID: CS-42 (6')

Lab Sample ID: 880-20421-42

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:39	10/22/22 20:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:39	10/22/22 20:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:39	10/22/22 20:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/17/22 13:39	10/22/22 20:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/17/22 13:39	10/22/22 20:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/17/22 13:39	10/22/22 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/17/22 13:39	10/22/22 20:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130				10/17/22 13:39	10/22/22 20:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/19/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		10/18/22 08:38	10/18/22 12:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/18/22 08:38	10/18/22 12:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/22 08:38	10/18/22 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				10/18/22 08:38	10/18/22 12:50	1
<i>o</i> -Terphenyl	90		70 - 130				10/18/22 08:38	10/18/22 12:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	867		25.0		mg/Kg			10/19/22 00:16	5

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-43 (6')

Lab Sample ID: 880-20421-43

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 21:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 21:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 21:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/17/22 13:39	10/22/22 21:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 21:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/17/22 13:39	10/22/22 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/17/22 13:39	10/22/22 21:05	1
1,4-Difluorobenzene (Surr)	85		70 - 130	10/17/22 13:39	10/22/22 21:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/19/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		10/18/22 08:38	10/18/22 13:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/18/22 08:38	10/18/22 13:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/22 08:38	10/18/22 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	10/18/22 08:38	10/18/22 13:11	1
o-Terphenyl	92		70 - 130	10/18/22 08:38	10/18/22 13:11	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		5.01		mg/Kg			10/19/22 00:21	1

Client Sample ID: CS-44 (6')

Lab Sample ID: 880-20421-44

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/22/22 21:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/22/22 21:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/22/22 21:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 13:39	10/22/22 21:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/22/22 21:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 13:39	10/22/22 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/17/22 13:39	10/22/22 21:26	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/17/22 13:39	10/22/22 21:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-44 (6')

Lab Sample ID: 880-20421-44

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/19/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		10/18/22 08:38	10/18/22 13:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/18/22 08:38	10/18/22 13:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/18/22 08:38	10/18/22 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				10/18/22 08:38	10/18/22 13:32	1
o-Terphenyl	96		70 - 130				10/18/22 08:38	10/18/22 13:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		5.02		mg/Kg			10/19/22 00:25	1

Client Sample ID: SW-1 (6')

Lab Sample ID: 880-20421-45

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 21:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 21:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 21:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:39	10/22/22 21:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 21:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:39	10/22/22 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				10/17/22 13:39	10/22/22 21:46	1
1,4-Difluorobenzene (Surr)	92		70 - 130				10/17/22 13:39	10/22/22 21:46	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			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/19/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/18/22 08:41	10/18/22 11:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/18/22 08:41	10/18/22 11:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: SW-1 (6')

Lab Sample ID: 880-20421-45

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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		10/18/22 08:41	10/18/22 11:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				10/18/22 08:41	10/18/22 11:46	1
o-Terphenyl	113		70 - 130				10/18/22 08:41	10/18/22 11:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.01		mg/Kg			10/19/22 00:40	1

Client Sample ID: SW-2 (6')

Lab Sample ID: 880-20421-46

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 22:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 22:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 22:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:39	10/22/22 22:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 22:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:39	10/22/22 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				10/17/22 13:39	10/22/22 22:07	1
1,4-Difluorobenzene (Surr)	99		70 - 130				10/17/22 13:39	10/22/22 22:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/19/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/18/22 08:41	10/18/22 12:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/18/22 08:41	10/18/22 12:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/18/22 08:41	10/18/22 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				10/18/22 08:41	10/18/22 12:50	1
o-Terphenyl	125		70 - 130				10/18/22 08:41	10/18/22 12:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		4.97		mg/Kg			10/19/22 00:45	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (6')

Lab Sample ID: 880-20421-47

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 22:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 22:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 22:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/22 13:39	10/22/22 22:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 22:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/22 13:39	10/22/22 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/17/22 13:39	10/22/22 22:27	1
1,4-Difluorobenzene (Surr)	86		70 - 130	10/17/22 13:39	10/22/22 22:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/19/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/18/22 08:41	10/18/22 13:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/18/22 08:41	10/18/22 13:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/18/22 08:41	10/18/22 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	10/18/22 08:41	10/18/22 13:11	1
o-Terphenyl	103		70 - 130	10/18/22 08:41	10/18/22 13:11	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	675		4.95		mg/Kg			10/19/22 00:50	1

Client Sample ID: SW-4 (6')

Lab Sample ID: 880-20421-48

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 22:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 22:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 22:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/17/22 13:39	10/22/22 22:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 22:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/17/22 13:39	10/22/22 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/17/22 13:39	10/22/22 22:48	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/17/22 13:39	10/22/22 22:48	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: SW-4 (6')

Lab Sample ID: 880-20421-48

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	125		50.0		mg/Kg			10/19/22 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/18/22 08:41	10/18/22 13:32	1
Diesel Range Organics (Over C10-C28)	125		50.0		mg/Kg		10/18/22 08:41	10/18/22 13:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/22 08:41	10/18/22 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				10/18/22 08:41	10/18/22 13:32	1
o-Terphenyl	99		70 - 130				10/18/22 08:41	10/18/22 13:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		4.95		mg/Kg			10/19/22 00:55	1

Client Sample ID: SW-5 (6')

Lab Sample ID: 880-20421-49

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/22/22 23:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/22/22 23:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/22/22 23:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 13:39	10/22/22 23:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/22/22 23:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 13:39	10/22/22 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				10/17/22 13:39	10/22/22 23:08	1
1,4-Difluorobenzene (Surr)	86		70 - 130				10/17/22 13:39	10/22/22 23:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	334		49.8		mg/Kg			10/18/22 10:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/17/22 10:20	10/17/22 17:33	1
Diesel Range Organics (Over C10-C28)	334		49.8		mg/Kg		10/17/22 10:20	10/17/22 17:33	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: SW-5 (6')

Lab Sample ID: 880-20421-49

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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		10/17/22 10:20	10/17/22 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				10/17/22 10:20	10/17/22 17:33	1
o-Terphenyl	92		70 - 130				10/17/22 10:20	10/17/22 17:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	416		5.00		mg/Kg			10/19/22 00:59	1

Client Sample ID: SW-6 (6')

Lab Sample ID: 880-20421-50

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 23:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 23:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 23:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:39	10/22/22 23:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/22/22 23:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:39	10/22/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				10/17/22 13:39	10/22/22 23:29	1
1,4-Difluorobenzene (Surr)	86		70 - 130				10/17/22 13:39	10/22/22 23:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.1		50.0		mg/Kg			10/18/22 10:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:20	10/17/22 17:54	1
Diesel Range Organics (Over C10-C28)	64.1		50.0		mg/Kg		10/17/22 10:20	10/17/22 17:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:20	10/17/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				10/17/22 10:20	10/17/22 17:54	1
o-Terphenyl	94		70 - 130				10/17/22 10:20	10/17/22 17:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430	F1	25.1		mg/Kg			10/19/22 01:04	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: SW-7 (6')

Lab Sample ID: 880-20421-51

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/23/22 00:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/23/22 00:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/23/22 00:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:39	10/23/22 00:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/23/22 00:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:39	10/23/22 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/17/22 13:39	10/23/22 00:50	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/17/22 13:39	10/23/22 00:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	88.5		50.0		mg/Kg			10/18/22 10:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:20	10/17/22 18:21	1
Diesel Range Organics (Over C10-C28)	88.5		50.0		mg/Kg		10/17/22 10:20	10/17/22 18:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:20	10/17/22 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	10/17/22 10:20	10/17/22 18:21	1
o-Terphenyl	118		70 - 130	10/17/22 10:20	10/17/22 18:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		4.99		mg/Kg			10/19/22 01:19	1

Client Sample ID: SW-8 (6')

Lab Sample ID: 880-20421-52

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/23/22 01:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/23/22 01:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/23/22 01:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 13:39	10/23/22 01:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 13:39	10/23/22 01:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 13:39	10/23/22 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/17/22 13:39	10/23/22 01:11	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/17/22 13:39	10/23/22 01:11	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: SW-8 (6')

Lab Sample ID: 880-20421-52

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	653		50.0		mg/Kg			10/18/22 10:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:20	10/17/22 18:42	1
Diesel Range Organics (Over C10-C28)	653		50.0		mg/Kg		10/17/22 10:20	10/17/22 18:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:20	10/17/22 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				10/17/22 10:20	10/17/22 18:42	1
o-Terphenyl	111		70 - 130				10/17/22 10:20	10/17/22 18:42	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.8		4.98		mg/Kg			10/19/22 01:24	1

Client Sample ID: SW-9 (6')

Lab Sample ID: 880-20421-53

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/23/22 01:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/23/22 01:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/23/22 01:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/17/22 13:39	10/23/22 01:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/23/22 01:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/17/22 13:39	10/23/22 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				10/17/22 13:39	10/23/22 01:31	1
1,4-Difluorobenzene (Surr)	74		70 - 130				10/17/22 13:39	10/23/22 01:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	617		50.0		mg/Kg			10/18/22 10:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:20	10/17/22 19:03	1
Diesel Range Organics (Over C10-C28)	617		50.0		mg/Kg		10/17/22 10:20	10/17/22 19:03	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: SW-9 (6')

Lab Sample ID: 880-20421-53

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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		10/17/22 10:20	10/17/22 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				10/17/22 10:20	10/17/22 19:03	1
o-Terphenyl	110		70 - 130				10/17/22 10:20	10/17/22 19:03	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	442		5.03		mg/Kg			10/19/22 01:38	1

Client Sample ID: SW-10 (6')

Lab Sample ID: 880-20421-54

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/23/22 01:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/23/22 01:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/23/22 01:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 13:39	10/23/22 01:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 13:39	10/23/22 01:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 13:39	10/23/22 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				10/17/22 13:39	10/23/22 01:52	1
1,4-Difluorobenzene (Surr)	82		70 - 130				10/17/22 13:39	10/23/22 01:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	615		49.9		mg/Kg			10/18/22 10:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	128		49.9		mg/Kg		10/17/22 10:20	10/17/22 19:24	1
Diesel Range Organics (Over C10-C28)	487		49.9		mg/Kg		10/17/22 10:20	10/17/22 19:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/22 10:20	10/17/22 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				10/17/22 10:20	10/17/22 19:24	1
o-Terphenyl	99		70 - 130				10/17/22 10:20	10/17/22 19:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		5.04		mg/Kg			10/19/22 01:43	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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)
880-20421-1	CS-1 (6')	101	100
880-20421-1 MS	CS-1 (6')	97	103
880-20421-1 MSD	CS-1 (6')	91	105
880-20421-2	CS-2 (6')	97	100
880-20421-3	CS-3 (6')	100	95
880-20421-4	CS-4 (6')	99	92
880-20421-5	CS-5 (6')	100	101
880-20421-6	CS-6 (6')	95	98
880-20421-7	CS-7 (6')	96	98
880-20421-8	CS-8 (6')	104	98
880-20421-9	CS-9 (6')	95	100
880-20421-10	CS-10 (6')	90	100
880-20421-11	CS-11 (6')	94	96
880-20421-12	CS-12 (6')	101	97
880-20421-13	CS-13 (6')	96	96
880-20421-14	CS-14 (6')	93	102
880-20421-15	CS-15 (6')	98	101
880-20421-16	CS-16 (6')	95	103
880-20421-17	CS-17 (6')	90	101
880-20421-18	CS-18 (6')	81	83
880-20421-19	CS-19 (6')	123	68 S1-
880-20421-20	CS-20 (6')	142 S1+	76
880-20421-21	CS-21 (6')	85	109
880-20421-22	CS-22 (6')	106	110
880-20421-22 MS	CS-22 (6')	102	108
880-20421-22 MSD	CS-22 (6')	98	100
880-20421-23	CS-23 (6')	98	87
880-20421-24	CS-24 (6')	99	99
880-20421-25	CS-25 (6')	103	104
880-20421-26	CS-26 (6')	213 S1+	100
880-20421-27	CS-27 (6')	110	105
880-20421-28	CS-28 (6')	193 S1+	100
880-20421-29	CS-29 (6')	110	108
880-20421-30	CS-30 (6')	116	94
880-20421-31	CS-31 (6')	101	95
880-20421-32	CS-32 (6')	97	92
880-20421-33	CS-33 (6')	96	98
880-20421-34	CS-34 (6')	95	95
880-20421-35	CS-35 (6')	109	101
880-20421-36	CS-36 (6')	113	101
880-20421-37	CS-37 (6')	112	102
880-20421-38	CS-38 (6')	100	100
880-20421-39	CS-39 (6')	102	96
880-20421-40	CS-40 (6')	97	92
880-20421-41	CS-41 (6')	92	103
880-20421-41 MS	CS-41 (6')	95	111
880-20421-41 MSD	CS-41 (6')	107	106
880-20421-42	CS-42 (6')	99	100
880-20421-43	CS-43 (6')	111	85

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Surrogate Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-20421-44	CS-44 (6')	105	90
880-20421-45	SW-1 (6')	116	92
880-20421-46	SW-2 (6')	94	99
880-20421-47	SW-3 (6')	115	86
880-20421-48	SW-4 (6')	99	93
880-20421-49	SW-5 (6')	97	86
880-20421-50	SW-6 (6')	105	86
880-20421-51	SW-7 (6')	99	97
880-20421-52	SW-8 (6')	99	87
880-20421-53	SW-9 (6')	112	74
880-20421-54	SW-10 (6')	116	82
LCS 880-37159/1-A	Lab Control Sample	93	101
LCS 880-37160/1-A	Lab Control Sample	117	89
LCS 880-37161/1-A	Lab Control Sample	51 S1-	90
LCSD 880-37159/2-A	Lab Control Sample Dup	100	98
LCSD 880-37160/2-A	Lab Control Sample Dup	100	109
LCSD 880-37161/2-A	Lab Control Sample Dup	108	94
MB 880-37159/5-A	Method Blank	93	104
MB 880-37160/5-A	Method Blank	84	94
MB 880-37161/5-A	Method Blank	84	98
MB 880-37451/8	Method Blank	90	101
MB 880-37520/5-A	Method Blank	88	94
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-20420-A-4-D MS	Matrix Spike	104	87
880-20420-A-4-E MSD	Matrix Spike Duplicate	99	80
880-20421-1	CS-1 (6')	112	120
880-20421-1 MS	CS-1 (6')	98	103
880-20421-1 MSD	CS-1 (6')	96	98
880-20421-2	CS-2 (6')	103	118
880-20421-3	CS-3 (6')	102	113
880-20421-4	CS-4 (6')	108	122
880-20421-5	CS-5 (6')	124	129
880-20421-6	CS-6 (6')	120	134 S1+
880-20421-7	CS-7 (6')	127	136 S1+
880-20421-8	CS-8 (6')	106	120
880-20421-9	CS-9 (6')	114	130
880-20421-10	CS-10 (6')	119	126
880-20421-11	CS-11 (6')	117	122
880-20421-12	CS-12 (6')	101	113
880-20421-13	CS-13 (6')	103	116
880-20421-14	CS-14 (6')	109	124

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Surrogate Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-20421-15	CS-15 (6')	124	130
880-20421-16	CS-16 (6')	99	112
880-20421-17	CS-17 (6')	108	120
880-20421-18	CS-18 (6')	113	126
880-20421-19	CS-19 (6')	108	120
880-20421-20	CS-20 (6')	98	112
880-20421-21	CS-21 (6')	100	114
880-20421-21 MS	CS-21 (6')	104	106
880-20421-21 MSD	CS-21 (6')	99	100
880-20421-22	CS-22 (6')	99	111
880-20421-23	CS-23 (6')	92	104
880-20421-24	CS-24 (6')	113	119
880-20421-25	CS-25 (6')	125	127
880-20421-26	CS-26 (6')	122	131 S1+
880-20421-27	CS-27 (6')	136 S1+	141 S1+
880-20421-28	CS-28 (6')	127	129
880-20421-29	CS-29 (6')	132 S1+	140 S1+
880-20421-30	CS-30 (6')	119	134 S1+
880-20421-31	CS-31 (6')	114	130
880-20421-32	CS-32 (6')	114	131 S1+
880-20421-33	CS-33 (6')	115	133 S1+
880-20421-34	CS-34 (6')	117	134 S1+
880-20421-35	CS-35 (6')	118	133 S1+
880-20421-36	CS-36 (6')	113	128
880-20421-37	CS-37 (6')	111	124
880-20421-38	CS-38 (6')	130	142 S1+
880-20421-39	CS-39 (6')	119	136 S1+
880-20421-40	CS-40 (6')	112	128
880-20421-41	CS-41 (6')	102	93
880-20421-41 MS	CS-41 (6')	108	85
880-20421-41 MSD	CS-41 (6')	85	72
880-20421-42	CS-42 (6')	102	90
880-20421-43	CS-43 (6')	104	92
880-20421-44	CS-44 (6')	109	96
880-20421-45	SW-1 (6')	104	113
880-20421-45 MS	SW-1 (6')	91	90
880-20421-45 MSD	SW-1 (6')	91	89
880-20421-46	SW-2 (6')	115	125
880-20421-47	SW-3 (6')	93	103
880-20421-48	SW-4 (6')	91	99
880-20421-49	SW-5 (6')	112	92
880-20421-50	SW-6 (6')	109	94
880-20421-51	SW-7 (6')	133 S1+	118
880-20421-52	SW-8 (6')	129	111
880-20421-53	SW-9 (6')	125	110
880-20421-54	SW-10 (6')	121	99
LCS 880-37126/2-A	Lab Control Sample	82	80
LCS 880-37129/2-A	Lab Control Sample	107	121
LCS 880-37167/2-A	Lab Control Sample	115	133 S1+
LCS 880-37188/2-A	Lab Control Sample	91	101

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Surrogate Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCS 880-37189/2-A	Lab Control Sample	96	110
LCSD 880-37126/3-A	Lab Control Sample Dup	83	81
LCSD 880-37129/3-A	Lab Control Sample Dup	108	128
LCSD 880-37167/3-A	Lab Control Sample Dup	113	131 S1+
LCSD 880-37188/3-A	Lab Control Sample Dup	95	86
LCSD 880-37189/3-A	Lab Control Sample Dup	97	113
MB 880-37126/1-A	Method Blank	124	110
MB 880-37129/1-A	Method Blank	124	145 S1+
MB 880-37167/1-A	Method Blank	149 S1+	167 S1+
MB 880-37188/1-A	Method Blank	133 S1+	124
MB 880-37189/1-A	Method Blank	114	132 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37159/5-A

Matrix: Solid

Analysis Batch: 37451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 00:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 00:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 00:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/22 13:32	10/22/22 00:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:32	10/22/22 00:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/22 13:32	10/22/22 00:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/17/22 13:32	10/22/22 00:40	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/17/22 13:32	10/22/22 00:40	1

Lab Sample ID: LCS 880-37159/1-A

Matrix: Solid

Analysis Batch: 37451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1033		mg/Kg		103	70 - 130
Toluene	0.100	0.09722		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09043		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1853		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09010		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-37159/2-A

Matrix: Solid

Analysis Batch: 37451

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07293		mg/Kg		73	70 - 130	34	35
Toluene	0.100	0.07653		mg/Kg		77	70 - 130	24	35
Ethylbenzene	0.100	0.07018		mg/Kg		70	70 - 130	25	35
m-Xylene & p-Xylene	0.200	0.1400		mg/Kg		70	70 - 130	28	35
o-Xylene	0.100	0.07035		mg/Kg		70	70 - 130	25	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-20421-1 MS

Matrix: Solid

Analysis Batch: 37451

Client Sample ID: CS-1 (6')

Prep Type: Total/NA

Prep Batch: 37159

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0998	0.08802		mg/Kg		88	70 - 130
Toluene	<0.00200	U F1	0.0998	0.08341		mg/Kg		84	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20421-1 MS

Matrix: Solid

Analysis Batch: 37451

Client Sample ID: CS-1 (6')

Prep Type: Total/NA

Prep Batch: 37159

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0998	0.07408		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1504		mg/Kg		75	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.07392		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-20421-1 MSD

Matrix: Solid

Analysis Batch: 37451

Client Sample ID: CS-1 (6')

Prep Type: Total/NA

Prep Batch: 37159

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00200	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00200	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00401	U F1	0.198	<0.00396	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00200	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-37160/5-A

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/22 13:35	10/21/22 11:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/22 13:35	10/21/22 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	10/17/22 13:35	10/21/22 11:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/17/22 13:35	10/21/22 11:02	1

Lab Sample ID: LCS 880-37160/1-A

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09860		mg/Kg		99	70 - 130
Toluene	0.100	0.1024		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2290		mg/Kg		115	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-37160/1-A

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1117		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-37160/2-A

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37160

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1136		mg/Kg		114	70 - 130	14	35
Toluene	0.100	0.09941		mg/Kg		99	70 - 130	3	35
Ethylbenzene	0.100	0.09616		mg/Kg		96	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1989		mg/Kg		99	70 - 130	14	35
o-Xylene	0.100	0.09653		mg/Kg		97	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-20421-22 MS

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: CS-22 (6')

Prep Type: Total/NA

Prep Batch: 37160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0990	0.09826		mg/Kg		99	70 - 130
Toluene	<0.00199	U	0.0990	0.08093		mg/Kg		81	70 - 130
Ethylbenzene	<0.00199	U F1	0.0990	0.06477	F1	mg/Kg		65	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1285	F1	mg/Kg		65	70 - 130
o-Xylene	<0.00199	U F1	0.0990	0.06514	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-20421-22 MSD

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: CS-22 (6')

Prep Type: Total/NA

Prep Batch: 37160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1006		mg/Kg		100	70 - 130	2	35
Toluene	<0.00199	U	0.101	0.08081		mg/Kg		80	70 - 130	0	35
Ethylbenzene	<0.00199	U F1	0.101	0.06363	F1	mg/Kg		63	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1264	F1	mg/Kg		63	70 - 130	2	35
o-Xylene	<0.00199	U F1	0.101	0.06630	F1	mg/Kg		66	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20421-22 MSD

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: CS-22 (6')

Prep Type: Total/NA

Prep Batch: 37160

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-37161/5-A

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37161

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 20:02	1	
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 20:02	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 20:02	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/22 13:39	10/22/22 20:02	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:39	10/22/22 20:02	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/22 13:39	10/22/22 20:02	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				10/17/22 13:39	10/22/22 20:02	1	
1,4-Difluorobenzene (Surr)	98		70 - 130				10/17/22 13:39	10/22/22 20:02	1	

Lab Sample ID: LCS 880-37161/1-A

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37161

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.1148		mg/Kg		115	70 - 130			
Toluene	0.100	0.1066		mg/Kg		107	70 - 130			
Ethylbenzene	0.100	0.1142		mg/Kg		114	70 - 130			
m-Xylene & p-Xylene	0.200	0.2386		mg/Kg		119	70 - 130			
o-Xylene	0.100	0.1173		mg/Kg		117	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130							
1,4-Difluorobenzene (Surr)	90		70 - 130							

Lab Sample ID: LCSD 880-37161/2-A

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37161

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.1108		mg/Kg		111	70 - 130	3	35
Toluene			0.100	0.1048		mg/Kg		105	70 - 130	2	35
Ethylbenzene			0.100	0.1054		mg/Kg		105	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2246		mg/Kg		112	70 - 130	6	35
o-Xylene			0.100	0.1106		mg/Kg		111	70 - 130	6	35
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	108		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-37161/2-A

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37161

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

Lab Sample ID: 880-20421-41 MS

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: CS-41 (6')

Prep Type: Total/NA

Prep Batch: 37161

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0998	0.1186		mg/Kg		119	70 - 130	
Toluene	<0.00202	U	0.0998	0.09997		mg/Kg		100	70 - 130	
Ethylbenzene	<0.00202	U	0.0998	0.09529		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1920		mg/Kg		96	70 - 130	
o-Xylene	<0.00202	U	0.0998	0.09368		mg/Kg		94	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-20421-41 MSD

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: CS-41 (6')

Prep Type: Total/NA

Prep Batch: 37161

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00202	U	0.0996	0.09822		mg/Kg		99	70 - 130	19	35	
Toluene	<0.00202	U	0.0996	0.09039		mg/Kg		91	70 - 130	10	35	
Ethylbenzene	<0.00202	U	0.0996	0.09224		mg/Kg		93	70 - 130	3	35	
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1943		mg/Kg		98	70 - 130	1	35	
o-Xylene	<0.00202	U	0.0996	0.09544		mg/Kg		96	70 - 130	2	35	

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

Lab Sample ID: MB 880-37451/8

Matrix: Solid

Analysis Batch: 37451

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg			10/21/22 11:31	1	
Toluene	<0.00200	U	0.00200		mg/Kg			10/21/22 11:31	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			10/21/22 11:31	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			10/21/22 11:31	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg			10/21/22 11:31	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			10/21/22 11:31	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	90		70 - 130		10/21/22 11:31	1				
1,4-Difluorobenzene (Surr)	101		70 - 130		10/21/22 11:31	1				

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-37520/5-A

Matrix: Solid

Analysis Batch: 37450

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:41	10/22/22 08:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:41	10/22/22 08:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:41	10/22/22 08:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/21/22 14:41	10/22/22 08:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:41	10/22/22 08:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/21/22 14:41	10/22/22 08:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/21/22 14:41	10/22/22 08:40	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/21/22 14:41	10/22/22 08:40	1

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

Lab Sample ID: MB 880-37126/1-A

Matrix: Solid

Analysis Batch: 37035

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:20	10/17/22 10:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/22 10:20	10/17/22 10:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:20	10/17/22 10:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	10/17/22 10:20	10/17/22 10:46	1
o-Terphenyl	110		70 - 130	10/17/22 10:20	10/17/22 10:46	1

Lab Sample ID: LCS 880-37126/2-A

Matrix: Solid

Analysis Batch: 37035

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	825.5		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	881.6		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-37126/3-A

Matrix: Solid

Analysis Batch: 37035

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37126

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	755.2		mg/Kg		76	70 - 130	9	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-37126/3-A

Matrix: Solid

Analysis Batch: 37035

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37126

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	889.9		mg/Kg		89	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	83		70 - 130						
o-Terphenyl	81		70 - 130						

Lab Sample ID: 880-20420-A-4-D MS

Matrix: Solid

Analysis Batch: 37035

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 37126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	979.1		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	983.6		mg/Kg		96	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	87		70 - 130								

Lab Sample ID: 880-20420-A-4-E MSD

Matrix: Solid

Analysis Batch: 37035

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 37126

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	998	869.6		mg/Kg		87	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	924.2		mg/Kg		90	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	80		70 - 130								

Lab Sample ID: MB 880-37129/1-A

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37129

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 10:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 10:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 10:26	10/17/22 10:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	124		70 - 130						
o-Terphenyl	145	S1+	70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-37129/2-A

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37129

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	994.5		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	961.3		mg/Kg		96	70 - 130		
								</			

Lab Sample ID: LCSD 880-37129/3-A

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37129

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1098		mg/Kg		110	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	1034		mg/Kg		103	70 - 130	7	20

Lab Sample ID: 880-20421-1 MS

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: CS-1 (6')

Prep Type: Total/NA

Prep Batch: 37129

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1175		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1074		mg/Kg		105	70 - 130		

Lab Sample ID: 880-20421-1 MSD

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: CS-1 (6')

Prep Type: Total/NA

Prep Batch: 37129

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1188		mg/Kg		118	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1058		mg/Kg		103	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	96		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20421-1 MSD

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: CS-1 (6')

Prep Type: Total/NA

Prep Batch: 37129

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	98		70 - 130

Lab Sample ID: MB 880-37167/1-A

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37167

	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		10/17/22 15:07	10/17/22 20:28	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/22 15:07	10/17/22 20:28	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/22 15:07	10/17/22 20:28	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	149	S1+	70 - 130				10/17/22 15:07	10/17/22 20:28	1	
<i>o</i> -Terphenyl	167	S1+	70 - 130				10/17/22 15:07	10/17/22 20:28	1	

Lab Sample ID: LCS 880-37167/2-A

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37167

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1003		mg/Kg		100	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1006		mg/Kg		101	70 - 130	
Surrogate	LCS	LCS								
	%Recovery	Qualifier	Limits							
1-Chlorooctane	115		70 - 130							
<i>o</i> -Terphenyl	133	S1+	70 - 130							

Lab Sample ID: LCSD 880-37167/3-A

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37167

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1039		mg/Kg		104	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)			1000	1002		mg/Kg		100	70 - 130	0	20	
Surrogate	LCSD	LCSD										
	%Recovery	Qualifier	Limits									
1-Chlorooctane	113		70 - 130									
<i>o</i> -Terphenyl	131	S1+	70 - 130									

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20421-21 MS

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: CS-21 (6')

Prep Type: Total/NA

Prep Batch: 37167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	890.5		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	485		998	1441		mg/Kg		96	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: 880-20421-21 MSD

Matrix: Solid

Analysis Batch: 37037

Client Sample ID: CS-21 (6')

Prep Type: Total/NA

Prep Batch: 37167

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	847.9		mg/Kg		83	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	485		998	1357		mg/Kg		87	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	100		70 - 130								

Lab Sample ID: MB 880-37188/1-A

Matrix: Solid

Analysis Batch: 37190

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37188

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/18/22 08:38	10/18/22 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/18/22 08:38	10/18/22 10:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/22 08:38	10/18/22 10:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				10/18/22 08:38	10/18/22 10:43	1
o-Terphenyl	124		70 - 130				10/18/22 08:38	10/18/22 10:43	1

Lab Sample ID: LCS 880-37188/2-A

Matrix: Solid

Analysis Batch: 37190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	814.2		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	943.3		mg/Kg		94	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-37188/2-A
Matrix: Solid
Analysis Batch: 37190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37188

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-37188/3-A
Matrix: Solid
Analysis Batch: 37190

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37188

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	566.2	*- *1	mg/Kg		57	70 - 130	36	20
Diesel Range Organics (Over C10-C28)	1000	862.6		mg/Kg		86	70 - 130	9	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-20421-41 MS
Matrix: Solid
Analysis Batch: 37190

Client Sample ID: CS-41 (6')
Prep Type: Total/NA
Prep Batch: 37188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	999	1067		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1033		mg/Kg		103	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-20421-41 MSD
Matrix: Solid
Analysis Batch: 37190

Client Sample ID: CS-41 (6')
Prep Type: Total/NA
Prep Batch: 37188

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	997	933.4		mg/Kg		94	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	903.4		mg/Kg		91	70 - 130	13	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	72		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-37189/1-A

Matrix: Solid

Analysis Batch: 37192

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/18/22 08:41	10/18/22 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/18/22 08:41	10/18/22 10:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/22 08:41	10/18/22 10:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				10/18/22 08:41	10/18/22 10:43	1
o-Terphenyl	132	S1+	70 - 130				10/18/22 08:41	10/18/22 10:43	1

Lab Sample ID: LCS 880-37189/2-A

Matrix: Solid

Analysis Batch: 37192

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	917.8		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	861.0		mg/Kg		86	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	96		70 - 130				
o-Terphenyl	110		70 - 130				

Lab Sample ID: LCSD 880-37189/3-A

Matrix: Solid

Analysis Batch: 37192

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 37189

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	899.3		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	878.4		mg/Kg		88	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 880-20421-45 MS

Matrix: Solid

Analysis Batch: 37192

Client Sample ID: SW-1 (6')

Prep Type: Total/NA

Prep Batch: 37189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1087		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1026		mg/Kg		99	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20421-45 MS

Matrix: Solid

Analysis Batch: 37192

Client Sample ID: SW-1 (6')

Prep Type: Total/NA

Prep Batch: 37189

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-20421-45 MSD

Matrix: Solid

Analysis Batch: 37192

Client Sample ID: SW-1 (6')

Prep Type: Total/NA

Prep Batch: 37189

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	1182		mg/Kg		117	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1034		mg/Kg		100	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	89		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37138/1-A

Matrix: Solid

Analysis Batch: 37228

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/18/22 18:49	1

Lab Sample ID: LCS 880-37138/2-A

Matrix: Solid

Analysis Batch: 37228

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.5		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-37138/3-A

Matrix: Solid

Analysis Batch: 37228

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	243.4		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-20421-10 MS

Matrix: Solid

Analysis Batch: 37228

Client Sample ID: CS-10 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1390		1250	2752		mg/Kg		109	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-20421-10 MSD

Matrix: Solid

Analysis Batch: 37228

Client Sample ID: CS-10 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1390		1250	2749		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-37139/1-A

Matrix: Solid

Analysis Batch: 37229

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/19/22 02:17	1

Lab Sample ID: LCS 880-37139/2-A

Matrix: Solid

Analysis Batch: 37229

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.1		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-37139/3-A

Matrix: Solid

Analysis Batch: 37229

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-20421-20 MS

Matrix: Solid

Analysis Batch: 37229

Client Sample ID: CS-20 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	477		250	702.0		mg/Kg		90	90 - 110

Lab Sample ID: 880-20421-20 MSD

Matrix: Solid

Analysis Batch: 37229

Client Sample ID: CS-20 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	477		250	703.4		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 880-20421-30 MS

Matrix: Solid

Analysis Batch: 37229

Client Sample ID: CS-30 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	151		252	402.9		mg/Kg		100	90 - 110

Lab Sample ID: 880-20421-30 MSD

Matrix: Solid

Analysis Batch: 37229

Client Sample ID: CS-30 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	151		252	403.6		mg/Kg		100	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-37140/1-A

Matrix: Solid

Analysis Batch: 37230

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/18/22 23:42	1

Lab Sample ID: LCS 880-37140/2-A

Matrix: Solid

Analysis Batch: 37230

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-37140/3-A

Matrix: Solid

Analysis Batch: 37230

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.5		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-20421-40 MS

Matrix: Solid

Analysis Batch: 37230

Client Sample ID: CS-40 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1220		1260	2540		mg/Kg		105	90 - 110

Lab Sample ID: 880-20421-40 MSD

Matrix: Solid

Analysis Batch: 37230

Client Sample ID: CS-40 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1220		1260	2548		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-20421-50 MS

Matrix: Solid

Analysis Batch: 37230

Client Sample ID: SW-6 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1430	F1	1250	2826	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-20421-50 MSD

Matrix: Solid

Analysis Batch: 37230

Client Sample ID: SW-6 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1430	F1	1250	2825	F1	mg/Kg		111	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 37159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-1	CS-1 (6')	Total/NA	Solid	5035	
880-20421-2	CS-2 (6')	Total/NA	Solid	5035	
880-20421-3	CS-3 (6')	Total/NA	Solid	5035	
880-20421-4	CS-4 (6')	Total/NA	Solid	5035	
880-20421-5	CS-5 (6')	Total/NA	Solid	5035	
880-20421-6	CS-6 (6')	Total/NA	Solid	5035	
880-20421-7	CS-7 (6')	Total/NA	Solid	5035	
880-20421-8	CS-8 (6')	Total/NA	Solid	5035	
880-20421-9	CS-9 (6')	Total/NA	Solid	5035	
880-20421-10	CS-10 (6')	Total/NA	Solid	5035	
880-20421-11	CS-11 (6')	Total/NA	Solid	5035	
880-20421-12	CS-12 (6')	Total/NA	Solid	5035	
880-20421-13	CS-13 (6')	Total/NA	Solid	5035	
880-20421-14	CS-14 (6')	Total/NA	Solid	5035	
880-20421-15	CS-15 (6')	Total/NA	Solid	5035	
880-20421-16	CS-16 (6')	Total/NA	Solid	5035	
880-20421-17	CS-17 (6')	Total/NA	Solid	5035	
880-20421-18	CS-18 (6')	Total/NA	Solid	5035	
880-20421-19	CS-19 (6')	Total/NA	Solid	5035	
880-20421-20	CS-20 (6')	Total/NA	Solid	5035	
MB 880-37159/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37159/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37159/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20421-1 MS	CS-1 (6')	Total/NA	Solid	5035	
880-20421-1 MSD	CS-1 (6')	Total/NA	Solid	5035	

Prep Batch: 37160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-21	CS-21 (6')	Total/NA	Solid	5035	
880-20421-22	CS-22 (6')	Total/NA	Solid	5035	
880-20421-23	CS-23 (6')	Total/NA	Solid	5035	
880-20421-24	CS-24 (6')	Total/NA	Solid	5035	
880-20421-25	CS-25 (6')	Total/NA	Solid	5035	
880-20421-26	CS-26 (6')	Total/NA	Solid	5035	
880-20421-27	CS-27 (6')	Total/NA	Solid	5035	
880-20421-28	CS-28 (6')	Total/NA	Solid	5035	
880-20421-29	CS-29 (6')	Total/NA	Solid	5035	
880-20421-30	CS-30 (6')	Total/NA	Solid	5035	
880-20421-31	CS-31 (6')	Total/NA	Solid	5035	
880-20421-32	CS-32 (6')	Total/NA	Solid	5035	
880-20421-33	CS-33 (6')	Total/NA	Solid	5035	
880-20421-34	CS-34 (6')	Total/NA	Solid	5035	
880-20421-35	CS-35 (6')	Total/NA	Solid	5035	
880-20421-36	CS-36 (6')	Total/NA	Solid	5035	
880-20421-37	CS-37 (6')	Total/NA	Solid	5035	
880-20421-38	CS-38 (6')	Total/NA	Solid	5035	
880-20421-39	CS-39 (6')	Total/NA	Solid	5035	
880-20421-40	CS-40 (6')	Total/NA	Solid	5035	
MB 880-37160/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37160/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37160/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 37160 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-22 MS	CS-22 (6')	Total/NA	Solid	5035	
880-20421-22 MSD	CS-22 (6')	Total/NA	Solid	5035	

Prep Batch: 37161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-41	CS-41 (6')	Total/NA	Solid	5035	
880-20421-42	CS-42 (6')	Total/NA	Solid	5035	
880-20421-43	CS-43 (6')	Total/NA	Solid	5035	
880-20421-44	CS-44 (6')	Total/NA	Solid	5035	
880-20421-45	SW-1 (6')	Total/NA	Solid	5035	
880-20421-46	SW-2 (6')	Total/NA	Solid	5035	
880-20421-47	SW-3 (6')	Total/NA	Solid	5035	
880-20421-48	SW-4 (6')	Total/NA	Solid	5035	
880-20421-49	SW-5 (6')	Total/NA	Solid	5035	
880-20421-50	SW-6 (6')	Total/NA	Solid	5035	
880-20421-51	SW-7 (6')	Total/NA	Solid	5035	
880-20421-52	SW-8 (6')	Total/NA	Solid	5035	
880-20421-53	SW-9 (6')	Total/NA	Solid	5035	
880-20421-54	SW-10 (6')	Total/NA	Solid	5035	
MB 880-37161/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37161/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37161/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20421-41 MS	CS-41 (6')	Total/NA	Solid	5035	
880-20421-41 MSD	CS-41 (6')	Total/NA	Solid	5035	

Analysis Batch: 37450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-21	CS-21 (6')	Total/NA	Solid	8021B	37160
880-20421-22	CS-22 (6')	Total/NA	Solid	8021B	37160
880-20421-23	CS-23 (6')	Total/NA	Solid	8021B	37160
880-20421-24	CS-24 (6')	Total/NA	Solid	8021B	37160
880-20421-25	CS-25 (6')	Total/NA	Solid	8021B	37160
880-20421-26	CS-26 (6')	Total/NA	Solid	8021B	37160
880-20421-27	CS-27 (6')	Total/NA	Solid	8021B	37160
880-20421-28	CS-28 (6')	Total/NA	Solid	8021B	37160
880-20421-29	CS-29 (6')	Total/NA	Solid	8021B	37160
880-20421-30	CS-30 (6')	Total/NA	Solid	8021B	37160
880-20421-31	CS-31 (6')	Total/NA	Solid	8021B	37160
880-20421-32	CS-32 (6')	Total/NA	Solid	8021B	37160
880-20421-33	CS-33 (6')	Total/NA	Solid	8021B	37160
880-20421-34	CS-34 (6')	Total/NA	Solid	8021B	37160
880-20421-35	CS-35 (6')	Total/NA	Solid	8021B	37160
880-20421-36	CS-36 (6')	Total/NA	Solid	8021B	37160
880-20421-37	CS-37 (6')	Total/NA	Solid	8021B	37160
880-20421-38	CS-38 (6')	Total/NA	Solid	8021B	37160
880-20421-39	CS-39 (6')	Total/NA	Solid	8021B	37160
880-20421-40	CS-40 (6')	Total/NA	Solid	8021B	37160
880-20421-41	CS-41 (6')	Total/NA	Solid	8021B	37161
880-20421-42	CS-42 (6')	Total/NA	Solid	8021B	37161
880-20421-43	CS-43 (6')	Total/NA	Solid	8021B	37161
880-20421-44	CS-44 (6')	Total/NA	Solid	8021B	37161

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QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 37450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-45	SW-1 (6')	Total/NA	Solid	8021B	37161
880-20421-46	SW-2 (6')	Total/NA	Solid	8021B	37161
880-20421-47	SW-3 (6')	Total/NA	Solid	8021B	37161
880-20421-48	SW-4 (6')	Total/NA	Solid	8021B	37161
880-20421-49	SW-5 (6')	Total/NA	Solid	8021B	37161
880-20421-50	SW-6 (6')	Total/NA	Solid	8021B	37161
880-20421-51	SW-7 (6')	Total/NA	Solid	8021B	37161
880-20421-52	SW-8 (6')	Total/NA	Solid	8021B	37161
880-20421-53	SW-9 (6')	Total/NA	Solid	8021B	37161
880-20421-54	SW-10 (6')	Total/NA	Solid	8021B	37161
MB 880-37160/5-A	Method Blank	Total/NA	Solid	8021B	37160
MB 880-37161/5-A	Method Blank	Total/NA	Solid	8021B	37161
MB 880-37520/5-A	Method Blank	Total/NA	Solid	8021B	37520
LCS 880-37160/1-A	Lab Control Sample	Total/NA	Solid	8021B	37160
LCS 880-37161/1-A	Lab Control Sample	Total/NA	Solid	8021B	37161
LCSD 880-37160/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37160
LCSD 880-37161/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37161
880-20421-22 MS	CS-22 (6')	Total/NA	Solid	8021B	37160
880-20421-22 MSD	CS-22 (6')	Total/NA	Solid	8021B	37160
880-20421-41 MS	CS-41 (6')	Total/NA	Solid	8021B	37161
880-20421-41 MSD	CS-41 (6')	Total/NA	Solid	8021B	37161

Analysis Batch: 37451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-1	CS-1 (6')	Total/NA	Solid	8021B	37159
880-20421-2	CS-2 (6')	Total/NA	Solid	8021B	37159
880-20421-3	CS-3 (6')	Total/NA	Solid	8021B	37159
880-20421-4	CS-4 (6')	Total/NA	Solid	8021B	37159
880-20421-5	CS-5 (6')	Total/NA	Solid	8021B	37159
880-20421-6	CS-6 (6')	Total/NA	Solid	8021B	37159
880-20421-7	CS-7 (6')	Total/NA	Solid	8021B	37159
880-20421-8	CS-8 (6')	Total/NA	Solid	8021B	37159
880-20421-9	CS-9 (6')	Total/NA	Solid	8021B	37159
880-20421-10	CS-10 (6')	Total/NA	Solid	8021B	37159
880-20421-11	CS-11 (6')	Total/NA	Solid	8021B	37159
880-20421-12	CS-12 (6')	Total/NA	Solid	8021B	37159
880-20421-13	CS-13 (6')	Total/NA	Solid	8021B	37159
880-20421-14	CS-14 (6')	Total/NA	Solid	8021B	37159
880-20421-15	CS-15 (6')	Total/NA	Solid	8021B	37159
880-20421-16	CS-16 (6')	Total/NA	Solid	8021B	37159
880-20421-17	CS-17 (6')	Total/NA	Solid	8021B	37159
880-20421-18	CS-18 (6')	Total/NA	Solid	8021B	37159
880-20421-19	CS-19 (6')	Total/NA	Solid	8021B	37159
880-20421-20	CS-20 (6')	Total/NA	Solid	8021B	37159
MB 880-37159/5-A	Method Blank	Total/NA	Solid	8021B	37159
MB 880-37451/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-37159/1-A	Lab Control Sample	Total/NA	Solid	8021B	37159
LCSD 880-37159/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37159
880-20421-1 MS	CS-1 (6')	Total/NA	Solid	8021B	37159
880-20421-1 MSD	CS-1 (6')	Total/NA	Solid	8021B	37159

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 37519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-1	CS-1 (6')	Total/NA	Solid	Total BTEX	
880-20421-2	CS-2 (6')	Total/NA	Solid	Total BTEX	
880-20421-3	CS-3 (6')	Total/NA	Solid	Total BTEX	
880-20421-4	CS-4 (6')	Total/NA	Solid	Total BTEX	
880-20421-5	CS-5 (6')	Total/NA	Solid	Total BTEX	
880-20421-6	CS-6 (6')	Total/NA	Solid	Total BTEX	
880-20421-7	CS-7 (6')	Total/NA	Solid	Total BTEX	
880-20421-8	CS-8 (6')	Total/NA	Solid	Total BTEX	
880-20421-9	CS-9 (6')	Total/NA	Solid	Total BTEX	
880-20421-10	CS-10 (6')	Total/NA	Solid	Total BTEX	
880-20421-11	CS-11 (6')	Total/NA	Solid	Total BTEX	
880-20421-12	CS-12 (6')	Total/NA	Solid	Total BTEX	
880-20421-13	CS-13 (6')	Total/NA	Solid	Total BTEX	
880-20421-14	CS-14 (6')	Total/NA	Solid	Total BTEX	
880-20421-15	CS-15 (6')	Total/NA	Solid	Total BTEX	
880-20421-16	CS-16 (6')	Total/NA	Solid	Total BTEX	
880-20421-17	CS-17 (6')	Total/NA	Solid	Total BTEX	
880-20421-18	CS-18 (6')	Total/NA	Solid	Total BTEX	
880-20421-19	CS-19 (6')	Total/NA	Solid	Total BTEX	
880-20421-20	CS-20 (6')	Total/NA	Solid	Total BTEX	
880-20421-21	CS-21 (6')	Total/NA	Solid	Total BTEX	
880-20421-22	CS-22 (6')	Total/NA	Solid	Total BTEX	
880-20421-23	CS-23 (6')	Total/NA	Solid	Total BTEX	
880-20421-24	CS-24 (6')	Total/NA	Solid	Total BTEX	
880-20421-25	CS-25 (6')	Total/NA	Solid	Total BTEX	
880-20421-26	CS-26 (6')	Total/NA	Solid	Total BTEX	
880-20421-27	CS-27 (6')	Total/NA	Solid	Total BTEX	
880-20421-28	CS-28 (6')	Total/NA	Solid	Total BTEX	
880-20421-29	CS-29 (6')	Total/NA	Solid	Total BTEX	
880-20421-30	CS-30 (6')	Total/NA	Solid	Total BTEX	
880-20421-31	CS-31 (6')	Total/NA	Solid	Total BTEX	
880-20421-32	CS-32 (6')	Total/NA	Solid	Total BTEX	
880-20421-33	CS-33 (6')	Total/NA	Solid	Total BTEX	
880-20421-34	CS-34 (6')	Total/NA	Solid	Total BTEX	
880-20421-35	CS-35 (6')	Total/NA	Solid	Total BTEX	
880-20421-36	CS-36 (6')	Total/NA	Solid	Total BTEX	
880-20421-37	CS-37 (6')	Total/NA	Solid	Total BTEX	
880-20421-38	CS-38 (6')	Total/NA	Solid	Total BTEX	
880-20421-39	CS-39 (6')	Total/NA	Solid	Total BTEX	
880-20421-40	CS-40 (6')	Total/NA	Solid	Total BTEX	
880-20421-41	CS-41 (6')	Total/NA	Solid	Total BTEX	
880-20421-42	CS-42 (6')	Total/NA	Solid	Total BTEX	
880-20421-43	CS-43 (6')	Total/NA	Solid	Total BTEX	
880-20421-44	CS-44 (6')	Total/NA	Solid	Total BTEX	
880-20421-45	SW-1 (6')	Total/NA	Solid	Total BTEX	
880-20421-46	SW-2 (6')	Total/NA	Solid	Total BTEX	
880-20421-47	SW-3 (6')	Total/NA	Solid	Total BTEX	
880-20421-48	SW-4 (6')	Total/NA	Solid	Total BTEX	
880-20421-49	SW-5 (6')	Total/NA	Solid	Total BTEX	
880-20421-50	SW-6 (6')	Total/NA	Solid	Total BTEX	
880-20421-51	SW-7 (6')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 37519 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-52	SW-8 (6')	Total/NA	Solid	Total BTEX	
880-20421-53	SW-9 (6')	Total/NA	Solid	Total BTEX	
880-20421-54	SW-10 (6')	Total/NA	Solid	Total BTEX	

Prep Batch: 37520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-37520/5-A	Method Blank	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 37035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-49	SW-5 (6')	Total/NA	Solid	8015B NM	37126
880-20421-50	SW-6 (6')	Total/NA	Solid	8015B NM	37126
880-20421-51	SW-7 (6')	Total/NA	Solid	8015B NM	37126
880-20421-52	SW-8 (6')	Total/NA	Solid	8015B NM	37126
880-20421-53	SW-9 (6')	Total/NA	Solid	8015B NM	37126
880-20421-54	SW-10 (6')	Total/NA	Solid	8015B NM	37126
MB 880-37126/1-A	Method Blank	Total/NA	Solid	8015B NM	37126
LCS 880-37126/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37126
LCSD 880-37126/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37126
880-20420-A-4-D MS	Matrix Spike	Total/NA	Solid	8015B NM	37126
880-20420-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	37126

Analysis Batch: 37037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-1	CS-1 (6')	Total/NA	Solid	8015B NM	37129
880-20421-2	CS-2 (6')	Total/NA	Solid	8015B NM	37129
880-20421-3	CS-3 (6')	Total/NA	Solid	8015B NM	37129
880-20421-4	CS-4 (6')	Total/NA	Solid	8015B NM	37129
880-20421-5	CS-5 (6')	Total/NA	Solid	8015B NM	37129
880-20421-6	CS-6 (6')	Total/NA	Solid	8015B NM	37129
880-20421-7	CS-7 (6')	Total/NA	Solid	8015B NM	37129
880-20421-8	CS-8 (6')	Total/NA	Solid	8015B NM	37129
880-20421-9	CS-9 (6')	Total/NA	Solid	8015B NM	37129
880-20421-10	CS-10 (6')	Total/NA	Solid	8015B NM	37129
880-20421-11	CS-11 (6')	Total/NA	Solid	8015B NM	37129
880-20421-12	CS-12 (6')	Total/NA	Solid	8015B NM	37129
880-20421-13	CS-13 (6')	Total/NA	Solid	8015B NM	37129
880-20421-14	CS-14 (6')	Total/NA	Solid	8015B NM	37129
880-20421-15	CS-15 (6')	Total/NA	Solid	8015B NM	37129
880-20421-16	CS-16 (6')	Total/NA	Solid	8015B NM	37129
880-20421-17	CS-17 (6')	Total/NA	Solid	8015B NM	37129
880-20421-18	CS-18 (6')	Total/NA	Solid	8015B NM	37129
880-20421-19	CS-19 (6')	Total/NA	Solid	8015B NM	37129
880-20421-20	CS-20 (6')	Total/NA	Solid	8015B NM	37129
880-20421-21	CS-21 (6')	Total/NA	Solid	8015B NM	37167
880-20421-22	CS-22 (6')	Total/NA	Solid	8015B NM	37167
880-20421-23	CS-23 (6')	Total/NA	Solid	8015B NM	37167
880-20421-24	CS-24 (6')	Total/NA	Solid	8015B NM	37167
880-20421-25	CS-25 (6')	Total/NA	Solid	8015B NM	37167

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 37037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-26	CS-26 (6')	Total/NA	Solid	8015B NM	37167
880-20421-27	CS-27 (6')	Total/NA	Solid	8015B NM	37167
880-20421-28	CS-28 (6')	Total/NA	Solid	8015B NM	37167
880-20421-29	CS-29 (6')	Total/NA	Solid	8015B NM	37167
880-20421-30	CS-30 (6')	Total/NA	Solid	8015B NM	37167
880-20421-31	CS-31 (6')	Total/NA	Solid	8015B NM	37167
880-20421-32	CS-32 (6')	Total/NA	Solid	8015B NM	37167
880-20421-33	CS-33 (6')	Total/NA	Solid	8015B NM	37167
880-20421-34	CS-34 (6')	Total/NA	Solid	8015B NM	37167
880-20421-35	CS-35 (6')	Total/NA	Solid	8015B NM	37167
880-20421-36	CS-36 (6')	Total/NA	Solid	8015B NM	37167
880-20421-37	CS-37 (6')	Total/NA	Solid	8015B NM	37167
880-20421-38	CS-38 (6')	Total/NA	Solid	8015B NM	37167
880-20421-39	CS-39 (6')	Total/NA	Solid	8015B NM	37167
880-20421-40	CS-40 (6')	Total/NA	Solid	8015B NM	37167
MB 880-37129/1-A	Method Blank	Total/NA	Solid	8015B NM	37129
MB 880-37167/1-A	Method Blank	Total/NA	Solid	8015B NM	37167
LCS 880-37129/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37129
LCS 880-37167/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37167
LCSD 880-37129/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37129
LCSD 880-37167/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37167
880-20421-1 MS	CS-1 (6')	Total/NA	Solid	8015B NM	37129
880-20421-1 MSD	CS-1 (6')	Total/NA	Solid	8015B NM	37129
880-20421-21 MS	CS-21 (6')	Total/NA	Solid	8015B NM	37167
880-20421-21 MSD	CS-21 (6')	Total/NA	Solid	8015B NM	37167

Prep Batch: 37126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-49	SW-5 (6')	Total/NA	Solid	8015NM Prep	
880-20421-50	SW-6 (6')	Total/NA	Solid	8015NM Prep	
880-20421-51	SW-7 (6')	Total/NA	Solid	8015NM Prep	
880-20421-52	SW-8 (6')	Total/NA	Solid	8015NM Prep	
880-20421-53	SW-9 (6')	Total/NA	Solid	8015NM Prep	
880-20421-54	SW-10 (6')	Total/NA	Solid	8015NM Prep	
MB 880-37126/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37126/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37126/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20420-A-4-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-20420-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 37129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-1	CS-1 (6')	Total/NA	Solid	8015NM Prep	
880-20421-2	CS-2 (6')	Total/NA	Solid	8015NM Prep	
880-20421-3	CS-3 (6')	Total/NA	Solid	8015NM Prep	
880-20421-4	CS-4 (6')	Total/NA	Solid	8015NM Prep	
880-20421-5	CS-5 (6')	Total/NA	Solid	8015NM Prep	
880-20421-6	CS-6 (6')	Total/NA	Solid	8015NM Prep	
880-20421-7	CS-7 (6')	Total/NA	Solid	8015NM Prep	
880-20421-8	CS-8 (6')	Total/NA	Solid	8015NM Prep	
880-20421-9	CS-9 (6')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 37129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-10	CS-10 (6')	Total/NA	Solid	8015NM Prep	
880-20421-11	CS-11 (6')	Total/NA	Solid	8015NM Prep	
880-20421-12	CS-12 (6')	Total/NA	Solid	8015NM Prep	
880-20421-13	CS-13 (6')	Total/NA	Solid	8015NM Prep	
880-20421-14	CS-14 (6')	Total/NA	Solid	8015NM Prep	
880-20421-15	CS-15 (6')	Total/NA	Solid	8015NM Prep	
880-20421-16	CS-16 (6')	Total/NA	Solid	8015NM Prep	
880-20421-17	CS-17 (6')	Total/NA	Solid	8015NM Prep	
880-20421-18	CS-18 (6')	Total/NA	Solid	8015NM Prep	
880-20421-19	CS-19 (6')	Total/NA	Solid	8015NM Prep	
880-20421-20	CS-20 (6')	Total/NA	Solid	8015NM Prep	
MB 880-37129/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37129/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37129/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20421-1 MS	CS-1 (6')	Total/NA	Solid	8015NM Prep	
880-20421-1 MSD	CS-1 (6')	Total/NA	Solid	8015NM Prep	

Prep Batch: 37167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-21	CS-21 (6')	Total/NA	Solid	8015NM Prep	
880-20421-22	CS-22 (6')	Total/NA	Solid	8015NM Prep	
880-20421-23	CS-23 (6')	Total/NA	Solid	8015NM Prep	
880-20421-24	CS-24 (6')	Total/NA	Solid	8015NM Prep	
880-20421-25	CS-25 (6')	Total/NA	Solid	8015NM Prep	
880-20421-26	CS-26 (6')	Total/NA	Solid	8015NM Prep	
880-20421-27	CS-27 (6')	Total/NA	Solid	8015NM Prep	
880-20421-28	CS-28 (6')	Total/NA	Solid	8015NM Prep	
880-20421-29	CS-29 (6')	Total/NA	Solid	8015NM Prep	
880-20421-30	CS-30 (6')	Total/NA	Solid	8015NM Prep	
880-20421-31	CS-31 (6')	Total/NA	Solid	8015NM Prep	
880-20421-32	CS-32 (6')	Total/NA	Solid	8015NM Prep	
880-20421-33	CS-33 (6')	Total/NA	Solid	8015NM Prep	
880-20421-34	CS-34 (6')	Total/NA	Solid	8015NM Prep	
880-20421-35	CS-35 (6')	Total/NA	Solid	8015NM Prep	
880-20421-36	CS-36 (6')	Total/NA	Solid	8015NM Prep	
880-20421-37	CS-37 (6')	Total/NA	Solid	8015NM Prep	
880-20421-38	CS-38 (6')	Total/NA	Solid	8015NM Prep	
880-20421-39	CS-39 (6')	Total/NA	Solid	8015NM Prep	
880-20421-40	CS-40 (6')	Total/NA	Solid	8015NM Prep	
MB 880-37167/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37167/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37167/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20421-21 MS	CS-21 (6')	Total/NA	Solid	8015NM Prep	
880-20421-21 MSD	CS-21 (6')	Total/NA	Solid	8015NM Prep	

Prep Batch: 37188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-41	CS-41 (6')	Total/NA	Solid	8015NM Prep	
880-20421-42	CS-42 (6')	Total/NA	Solid	8015NM Prep	
880-20421-43	CS-43 (6')	Total/NA	Solid	8015NM Prep	
880-20421-44	CS-44 (6')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 37188 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-37188/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37188/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37188/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20421-41 MS	CS-41 (6')	Total/NA	Solid	8015NM Prep	
880-20421-41 MSD	CS-41 (6')	Total/NA	Solid	8015NM Prep	

Prep Batch: 37189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-45	SW-1 (6')	Total/NA	Solid	8015NM Prep	
880-20421-46	SW-2 (6')	Total/NA	Solid	8015NM Prep	
880-20421-47	SW-3 (6')	Total/NA	Solid	8015NM Prep	
880-20421-48	SW-4 (6')	Total/NA	Solid	8015NM Prep	
MB 880-37189/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37189/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-37189/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20421-45 MS	SW-1 (6')	Total/NA	Solid	8015NM Prep	
880-20421-45 MSD	SW-1 (6')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-41	CS-41 (6')	Total/NA	Solid	8015B NM	37188
880-20421-42	CS-42 (6')	Total/NA	Solid	8015B NM	37188
880-20421-43	CS-43 (6')	Total/NA	Solid	8015B NM	37188
880-20421-44	CS-44 (6')	Total/NA	Solid	8015B NM	37188
MB 880-37188/1-A	Method Blank	Total/NA	Solid	8015B NM	37188
LCS 880-37188/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37188
LCSD 880-37188/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37188
880-20421-41 MS	CS-41 (6')	Total/NA	Solid	8015B NM	37188
880-20421-41 MSD	CS-41 (6')	Total/NA	Solid	8015B NM	37188

Analysis Batch: 37192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-45	SW-1 (6')	Total/NA	Solid	8015B NM	37189
880-20421-46	SW-2 (6')	Total/NA	Solid	8015B NM	37189
880-20421-47	SW-3 (6')	Total/NA	Solid	8015B NM	37189
880-20421-48	SW-4 (6')	Total/NA	Solid	8015B NM	37189
MB 880-37189/1-A	Method Blank	Total/NA	Solid	8015B NM	37189
LCS 880-37189/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37189
LCSD 880-37189/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37189
880-20421-45 MS	SW-1 (6')	Total/NA	Solid	8015B NM	37189
880-20421-45 MSD	SW-1 (6')	Total/NA	Solid	8015B NM	37189

Analysis Batch: 37212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-1	CS-1 (6')	Total/NA	Solid	8015 NM	
880-20421-2	CS-2 (6')	Total/NA	Solid	8015 NM	
880-20421-3	CS-3 (6')	Total/NA	Solid	8015 NM	
880-20421-4	CS-4 (6')	Total/NA	Solid	8015 NM	
880-20421-5	CS-5 (6')	Total/NA	Solid	8015 NM	
880-20421-6	CS-6 (6')	Total/NA	Solid	8015 NM	
880-20421-7	CS-7 (6')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 37212 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-8	CS-8 (6')	Total/NA	Solid	8015 NM	
880-20421-9	CS-9 (6')	Total/NA	Solid	8015 NM	
880-20421-10	CS-10 (6')	Total/NA	Solid	8015 NM	
880-20421-11	CS-11 (6')	Total/NA	Solid	8015 NM	
880-20421-12	CS-12 (6')	Total/NA	Solid	8015 NM	
880-20421-13	CS-13 (6')	Total/NA	Solid	8015 NM	
880-20421-14	CS-14 (6')	Total/NA	Solid	8015 NM	
880-20421-15	CS-15 (6')	Total/NA	Solid	8015 NM	
880-20421-16	CS-16 (6')	Total/NA	Solid	8015 NM	
880-20421-17	CS-17 (6')	Total/NA	Solid	8015 NM	
880-20421-18	CS-18 (6')	Total/NA	Solid	8015 NM	
880-20421-19	CS-19 (6')	Total/NA	Solid	8015 NM	
880-20421-20	CS-20 (6')	Total/NA	Solid	8015 NM	
880-20421-21	CS-21 (6')	Total/NA	Solid	8015 NM	
880-20421-22	CS-22 (6')	Total/NA	Solid	8015 NM	
880-20421-23	CS-23 (6')	Total/NA	Solid	8015 NM	
880-20421-24	CS-24 (6')	Total/NA	Solid	8015 NM	
880-20421-25	CS-25 (6')	Total/NA	Solid	8015 NM	
880-20421-26	CS-26 (6')	Total/NA	Solid	8015 NM	
880-20421-27	CS-27 (6')	Total/NA	Solid	8015 NM	
880-20421-28	CS-28 (6')	Total/NA	Solid	8015 NM	
880-20421-29	CS-29 (6')	Total/NA	Solid	8015 NM	
880-20421-30	CS-30 (6')	Total/NA	Solid	8015 NM	
880-20421-31	CS-31 (6')	Total/NA	Solid	8015 NM	
880-20421-32	CS-32 (6')	Total/NA	Solid	8015 NM	
880-20421-33	CS-33 (6')	Total/NA	Solid	8015 NM	
880-20421-34	CS-34 (6')	Total/NA	Solid	8015 NM	
880-20421-35	CS-35 (6')	Total/NA	Solid	8015 NM	
880-20421-36	CS-36 (6')	Total/NA	Solid	8015 NM	
880-20421-37	CS-37 (6')	Total/NA	Solid	8015 NM	
880-20421-38	CS-38 (6')	Total/NA	Solid	8015 NM	
880-20421-39	CS-39 (6')	Total/NA	Solid	8015 NM	
880-20421-40	CS-40 (6')	Total/NA	Solid	8015 NM	
880-20421-41	CS-41 (6')	Total/NA	Solid	8015 NM	
880-20421-42	CS-42 (6')	Total/NA	Solid	8015 NM	
880-20421-43	CS-43 (6')	Total/NA	Solid	8015 NM	
880-20421-44	CS-44 (6')	Total/NA	Solid	8015 NM	
880-20421-45	SW-1 (6')	Total/NA	Solid	8015 NM	
880-20421-46	SW-2 (6')	Total/NA	Solid	8015 NM	
880-20421-47	SW-3 (6')	Total/NA	Solid	8015 NM	
880-20421-48	SW-4 (6')	Total/NA	Solid	8015 NM	
880-20421-49	SW-5 (6')	Total/NA	Solid	8015 NM	
880-20421-50	SW-6 (6')	Total/NA	Solid	8015 NM	
880-20421-51	SW-7 (6')	Total/NA	Solid	8015 NM	
880-20421-52	SW-8 (6')	Total/NA	Solid	8015 NM	
880-20421-53	SW-9 (6')	Total/NA	Solid	8015 NM	
880-20421-54	SW-10 (6')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

HPLC/IC

Leach Batch: 37138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-1	CS-1 (6')	Soluble	Solid	DI Leach	
880-20421-2	CS-2 (6')	Soluble	Solid	DI Leach	
880-20421-3	CS-3 (6')	Soluble	Solid	DI Leach	
880-20421-4	CS-4 (6')	Soluble	Solid	DI Leach	
880-20421-5	CS-5 (6')	Soluble	Solid	DI Leach	
880-20421-6	CS-6 (6')	Soluble	Solid	DI Leach	
880-20421-7	CS-7 (6')	Soluble	Solid	DI Leach	
880-20421-8	CS-8 (6')	Soluble	Solid	DI Leach	
880-20421-9	CS-9 (6')	Soluble	Solid	DI Leach	
880-20421-10	CS-10 (6')	Soluble	Solid	DI Leach	
880-20421-11	CS-11 (6')	Soluble	Solid	DI Leach	
880-20421-12	CS-12 (6')	Soluble	Solid	DI Leach	
880-20421-13	CS-13 (6')	Soluble	Solid	DI Leach	
880-20421-14	CS-14 (6')	Soluble	Solid	DI Leach	
880-20421-15	CS-15 (6')	Soluble	Solid	DI Leach	
880-20421-16	CS-16 (6')	Soluble	Solid	DI Leach	
880-20421-17	CS-17 (6')	Soluble	Solid	DI Leach	
880-20421-18	CS-18 (6')	Soluble	Solid	DI Leach	
880-20421-19	CS-19 (6')	Soluble	Solid	DI Leach	
MB 880-37138/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37138/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37138/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20421-10 MS	CS-10 (6')	Soluble	Solid	DI Leach	
880-20421-10 MSD	CS-10 (6')	Soluble	Solid	DI Leach	

Leach Batch: 37139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-20	CS-20 (6')	Soluble	Solid	DI Leach	
880-20421-21	CS-21 (6')	Soluble	Solid	DI Leach	
880-20421-22	CS-22 (6')	Soluble	Solid	DI Leach	
880-20421-23	CS-23 (6')	Soluble	Solid	DI Leach	
880-20421-24	CS-24 (6')	Soluble	Solid	DI Leach	
880-20421-25	CS-25 (6')	Soluble	Solid	DI Leach	
880-20421-26	CS-26 (6')	Soluble	Solid	DI Leach	
880-20421-27	CS-27 (6')	Soluble	Solid	DI Leach	
880-20421-28	CS-28 (6')	Soluble	Solid	DI Leach	
880-20421-29	CS-29 (6')	Soluble	Solid	DI Leach	
880-20421-30	CS-30 (6')	Soluble	Solid	DI Leach	
880-20421-31	CS-31 (6')	Soluble	Solid	DI Leach	
880-20421-32	CS-32 (6')	Soluble	Solid	DI Leach	
880-20421-33	CS-33 (6')	Soluble	Solid	DI Leach	
880-20421-34	CS-34 (6')	Soluble	Solid	DI Leach	
880-20421-35	CS-35 (6')	Soluble	Solid	DI Leach	
880-20421-36	CS-36 (6')	Soluble	Solid	DI Leach	
880-20421-37	CS-37 (6')	Soluble	Solid	DI Leach	
880-20421-38	CS-38 (6')	Soluble	Solid	DI Leach	
880-20421-39	CS-39 (6')	Soluble	Solid	DI Leach	
MB 880-37139/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37139/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37139/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20421-20 MS	CS-20 (6')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 37139 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-20 MSD	CS-20 (6')	Soluble	Solid	DI Leach	
880-20421-30 MS	CS-30 (6')	Soluble	Solid	DI Leach	
880-20421-30 MSD	CS-30 (6')	Soluble	Solid	DI Leach	

Leach Batch: 37140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-40	CS-40 (6')	Soluble	Solid	DI Leach	
880-20421-41	CS-41 (6')	Soluble	Solid	DI Leach	
880-20421-42	CS-42 (6')	Soluble	Solid	DI Leach	
880-20421-43	CS-43 (6')	Soluble	Solid	DI Leach	
880-20421-44	CS-44 (6')	Soluble	Solid	DI Leach	
880-20421-45	SW-1 (6')	Soluble	Solid	DI Leach	
880-20421-46	SW-2 (6')	Soluble	Solid	DI Leach	
880-20421-47	SW-3 (6')	Soluble	Solid	DI Leach	
880-20421-48	SW-4 (6')	Soluble	Solid	DI Leach	
880-20421-49	SW-5 (6')	Soluble	Solid	DI Leach	
880-20421-50	SW-6 (6')	Soluble	Solid	DI Leach	
880-20421-51	SW-7 (6')	Soluble	Solid	DI Leach	
880-20421-52	SW-8 (6')	Soluble	Solid	DI Leach	
880-20421-53	SW-9 (6')	Soluble	Solid	DI Leach	
880-20421-54	SW-10 (6')	Soluble	Solid	DI Leach	
MB 880-37140/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37140/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37140/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20421-40 MS	CS-40 (6')	Soluble	Solid	DI Leach	
880-20421-40 MSD	CS-40 (6')	Soluble	Solid	DI Leach	
880-20421-50 MS	SW-6 (6')	Soluble	Solid	DI Leach	
880-20421-50 MSD	SW-6 (6')	Soluble	Solid	DI Leach	

Analysis Batch: 37228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-1	CS-1 (6')	Soluble	Solid	300.0	37138
880-20421-2	CS-2 (6')	Soluble	Solid	300.0	37138
880-20421-3	CS-3 (6')	Soluble	Solid	300.0	37138
880-20421-4	CS-4 (6')	Soluble	Solid	300.0	37138
880-20421-5	CS-5 (6')	Soluble	Solid	300.0	37138
880-20421-6	CS-6 (6')	Soluble	Solid	300.0	37138
880-20421-7	CS-7 (6')	Soluble	Solid	300.0	37138
880-20421-8	CS-8 (6')	Soluble	Solid	300.0	37138
880-20421-9	CS-9 (6')	Soluble	Solid	300.0	37138
880-20421-10	CS-10 (6')	Soluble	Solid	300.0	37138
880-20421-11	CS-11 (6')	Soluble	Solid	300.0	37138
880-20421-12	CS-12 (6')	Soluble	Solid	300.0	37138
880-20421-13	CS-13 (6')	Soluble	Solid	300.0	37138
880-20421-14	CS-14 (6')	Soluble	Solid	300.0	37138
880-20421-15	CS-15 (6')	Soluble	Solid	300.0	37138
880-20421-16	CS-16 (6')	Soluble	Solid	300.0	37138
880-20421-17	CS-17 (6')	Soluble	Solid	300.0	37138
880-20421-18	CS-18 (6')	Soluble	Solid	300.0	37138
880-20421-19	CS-19 (6')	Soluble	Solid	300.0	37138
MB 880-37138/1-A	Method Blank	Soluble	Solid	300.0	37138

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QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 37228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-37138/2-A	Lab Control Sample	Soluble	Solid	300.0	37138
LCSD 880-37138/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37138
880-20421-10 MS	CS-10 (6')	Soluble	Solid	300.0	37138
880-20421-10 MSD	CS-10 (6')	Soluble	Solid	300.0	37138

Analysis Batch: 37229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-20	CS-20 (6')	Soluble	Solid	300.0	37139
880-20421-21	CS-21 (6')	Soluble	Solid	300.0	37139
880-20421-22	CS-22 (6')	Soluble	Solid	300.0	37139
880-20421-23	CS-23 (6')	Soluble	Solid	300.0	37139
880-20421-24	CS-24 (6')	Soluble	Solid	300.0	37139
880-20421-25	CS-25 (6')	Soluble	Solid	300.0	37139
880-20421-26	CS-26 (6')	Soluble	Solid	300.0	37139
880-20421-27	CS-27 (6')	Soluble	Solid	300.0	37139
880-20421-28	CS-28 (6')	Soluble	Solid	300.0	37139
880-20421-29	CS-29 (6')	Soluble	Solid	300.0	37139
880-20421-30	CS-30 (6')	Soluble	Solid	300.0	37139
880-20421-31	CS-31 (6')	Soluble	Solid	300.0	37139
880-20421-32	CS-32 (6')	Soluble	Solid	300.0	37139
880-20421-33	CS-33 (6')	Soluble	Solid	300.0	37139
880-20421-34	CS-34 (6')	Soluble	Solid	300.0	37139
880-20421-35	CS-35 (6')	Soluble	Solid	300.0	37139
880-20421-36	CS-36 (6')	Soluble	Solid	300.0	37139
880-20421-37	CS-37 (6')	Soluble	Solid	300.0	37139
880-20421-38	CS-38 (6')	Soluble	Solid	300.0	37139
880-20421-39	CS-39 (6')	Soluble	Solid	300.0	37139
MB 880-37139/1-A	Method Blank	Soluble	Solid	300.0	37139
LCS 880-37139/2-A	Lab Control Sample	Soluble	Solid	300.0	37139
LCSD 880-37139/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37139
880-20421-20 MS	CS-20 (6')	Soluble	Solid	300.0	37139
880-20421-20 MSD	CS-20 (6')	Soluble	Solid	300.0	37139
880-20421-30 MS	CS-30 (6')	Soluble	Solid	300.0	37139
880-20421-30 MSD	CS-30 (6')	Soluble	Solid	300.0	37139

Analysis Batch: 37230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-40	CS-40 (6')	Soluble	Solid	300.0	37140
880-20421-41	CS-41 (6')	Soluble	Solid	300.0	37140
880-20421-42	CS-42 (6')	Soluble	Solid	300.0	37140
880-20421-43	CS-43 (6')	Soluble	Solid	300.0	37140
880-20421-44	CS-44 (6')	Soluble	Solid	300.0	37140
880-20421-45	SW-1 (6')	Soluble	Solid	300.0	37140
880-20421-46	SW-2 (6')	Soluble	Solid	300.0	37140
880-20421-47	SW-3 (6')	Soluble	Solid	300.0	37140
880-20421-48	SW-4 (6')	Soluble	Solid	300.0	37140
880-20421-49	SW-5 (6')	Soluble	Solid	300.0	37140
880-20421-50	SW-6 (6')	Soluble	Solid	300.0	37140
880-20421-51	SW-7 (6')	Soluble	Solid	300.0	37140
880-20421-52	SW-8 (6')	Soluble	Solid	300.0	37140
880-20421-53	SW-9 (6')	Soluble	Solid	300.0	37140

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QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 37230 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20421-54	SW-10 (6')	Soluble	Solid	300.0	37140
MB 880-37140/1-A	Method Blank	Soluble	Solid	300.0	37140
LCS 880-37140/2-A	Lab Control Sample	Soluble	Solid	300.0	37140
LCSD 880-37140/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37140
880-20421-40 MS	CS-40 (6')	Soluble	Solid	300.0	37140
880-20421-40 MSD	CS-40 (6')	Soluble	Solid	300.0	37140
880-20421-50 MS	SW-6 (6')	Soluble	Solid	300.0	37140
880-20421-50 MSD	SW-6 (6')	Soluble	Solid	300.0	37140

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (6')

Lab Sample ID: 880-20421-1

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 01:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 11:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 19:19	CH	EET MID

Client Sample ID: CS-2 (6')

Lab Sample ID: 880-20421-2

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 01:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 12:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 19:24	CH	EET MID

Client Sample ID: CS-3 (6')

Lab Sample ID: 880-20421-3

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 01:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 13:16	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 19:28	CH	EET MID

Client Sample ID: CS-4 (6')

Lab Sample ID: 880-20421-4

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 02:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-4 (6')

Lab Sample ID: 880-20421-4

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 13:37	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 19:33	CH	EET MID

Client Sample ID: CS-5 (6')

Lab Sample ID: 880-20421-5

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 13:59	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		5			37228	10/18/22 19:48	CH	EET MID

Client Sample ID: CS-6 (6')

Lab Sample ID: 880-20421-6

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 02:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 14:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		5			37228	10/18/22 19:53	CH	EET MID

Client Sample ID: CS-7 (6')

Lab Sample ID: 880-20421-7

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 03:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 14:42	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (6')

Lab Sample ID: 880-20421-7

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 19:58	CH	EET MID

Client Sample ID: CS-8 (6')

Lab Sample ID: 880-20421-8

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 03:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 15:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 20:02	CH	EET MID

Client Sample ID: CS-9 (6')

Lab Sample ID: 880-20421-9

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 15:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 20:07	CH	EET MID

Client Sample ID: CS-10 (6')

Lab Sample ID: 880-20421-10

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 15:46	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		5			37228	10/18/22 20:12	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-11 (6')

Lab Sample ID: 880-20421-11

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 06:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 16:29	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		10			37228	10/18/22 20:27	CH	EET MID

Client Sample ID: CS-12 (6')

Lab Sample ID: 880-20421-12

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 06:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 16:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		10			37228	10/18/22 20:32	CH	EET MID

Client Sample ID: CS-13 (6')

Lab Sample ID: 880-20421-13

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 06:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 17:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		10			37228	10/18/22 20:46	CH	EET MID

Client Sample ID: CS-14 (6')

Lab Sample ID: 880-20421-14

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 07:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-14 (6')

Lab Sample ID: 880-20421-14

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 17:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		10			37228	10/18/22 20:51	CH	EET MID

Client Sample ID: CS-15 (6')

Lab Sample ID: 880-20421-15

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 07:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 17:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 20:56	CH	EET MID

Client Sample ID: CS-16 (6')

Lab Sample ID: 880-20421-16

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 07:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 18:21	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 21:01	CH	EET MID

Client Sample ID: CS-17 (6')

Lab Sample ID: 880-20421-17

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37451	10/22/22 08:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 18:42	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-17 (6')

Lab Sample ID: 880-20421-17

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 21:06	CH	EET MID

Client Sample ID: CS-18 (6')

Lab Sample ID: 880-20421-18

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37451	10/22/22 08:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 19:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 21:10	CH	EET MID

Client Sample ID: CS-19 (6')

Lab Sample ID: 880-20421-19

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	37451	10/22/22 08:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 19:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	37138	10/17/22 11:25	KS	EET MID
Soluble	Analysis	300.0		1			37228	10/18/22 21:16	CH	EET MID

Client Sample ID: CS-20 (6')

Lab Sample ID: 880-20421-20

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	37159	10/17/22 13:32	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	37451	10/22/22 09:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37129	10/17/22 10:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 19:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 02:32	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-21 (6')

Lab Sample ID: 880-20421-21

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	37450	10/21/22 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/21/22 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 21:32	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 02:46	CH	EET MID

Client Sample ID: CS-22 (6')

Lab Sample ID: 880-20421-22

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 11:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/21/22 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 22:37	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 02:51	CH	EET MID

Client Sample ID: CS-23 (6')

Lab Sample ID: 880-20421-23

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 11:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/21/22 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 22:58	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 02:56	CH	EET MID

Client Sample ID: CS-24 (6')

Lab Sample ID: 880-20421-24

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 12:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/21/22 14:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-24 (6')

Lab Sample ID: 880-20421-24

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 23:20	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 03:01	CH	EET MID

Client Sample ID: CS-25 (6')

Lab Sample ID: 880-20421-25

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37450	10/21/22 13:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/21/22 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/17/22 23:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 03:16	CH	EET MID

Client Sample ID: CS-26 (6')

Lab Sample ID: 880-20421-26

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37450	10/21/22 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/21/22 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 00:04	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 03:20	CH	EET MID

Client Sample ID: CS-27 (6')

Lab Sample ID: 880-20421-27

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37450	10/21/22 14:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/21/22 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 00:25	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-27 (6')

Lab Sample ID: 880-20421-27

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 03:25	CH	EET MID

Client Sample ID: CS-28 (6')

Lab Sample ID: 880-20421-28

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37450	10/21/22 14:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 00:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 03:30	CH	EET MID

Client Sample ID: CS-29 (6')

Lab Sample ID: 880-20421-29

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/21/22 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 01:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 03:35	CH	EET MID

Client Sample ID: CS-30 (6')

Lab Sample ID: 880-20421-30

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 12:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/21/22 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 01:29	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 03:40	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-31 (6')

Lab Sample ID: 880-20421-31

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 16:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 02:12	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 03:54	CH	EET MID

Client Sample ID: CS-32 (6')

Lab Sample ID: 880-20421-32

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 16:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 02:33	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 03:59	CH	EET MID

Client Sample ID: CS-33 (6')

Lab Sample ID: 880-20421-33

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 16:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 02:55	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		5			37229	10/19/22 04:14	CH	EET MID

Client Sample ID: CS-34 (6')

Lab Sample ID: 880-20421-34

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-34 (6')

Lab Sample ID: 880-20421-34

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 03:16	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 04:19	CH	EET MID

Client Sample ID: CS-35 (6')

Lab Sample ID: 880-20421-35

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 03:37	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 04:24	CH	EET MID

Client Sample ID: CS-36 (6')

Lab Sample ID: 880-20421-36

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 03:58	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 04:29	CH	EET MID

Client Sample ID: CS-37 (6')

Lab Sample ID: 880-20421-37

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 04:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-37 (6')

Lab Sample ID: 880-20421-37

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 04:34	CH	EET MID

Client Sample ID: CS-38 (6')

Lab Sample ID: 880-20421-38

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 04:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		1			37229	10/19/22 04:39	CH	EET MID

Client Sample ID: CS-39 (6')

Lab Sample ID: 880-20421-39

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 05:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	37139	10/17/22 11:32	KS	EET MID
Soluble	Analysis	300.0		5			37229	10/19/22 04:43	CH	EET MID

Client Sample ID: CS-40 (6')

Lab Sample ID: 880-20421-40

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37160	10/17/22 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/21/22 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37167	10/17/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37037	10/18/22 05:23	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		5			37230	10/18/22 23:56	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-41 (6')

Lab Sample ID: 880-20421-41

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/22/22 20:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/19/22 09:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37188	10/18/22 08:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37190	10/18/22 11:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 00:11	CH	EET MID

Client Sample ID: CS-42 (6')

Lab Sample ID: 880-20421-42

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/22/22 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/19/22 09:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37188	10/18/22 08:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37190	10/18/22 12:50	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		5			37230	10/19/22 00:16	CH	EET MID

Client Sample ID: CS-43 (6')

Lab Sample ID: 880-20421-43

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/22/22 21:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/19/22 09:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37188	10/18/22 08:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37190	10/18/22 13:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 00:21	CH	EET MID

Client Sample ID: CS-44 (6')

Lab Sample ID: 880-20421-44

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/22/22 21:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: CS-44 (6')

Lab Sample ID: 880-20421-44

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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			37212	10/19/22 09:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37188	10/18/22 08:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37190	10/18/22 13:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 00:25	CH	EET MID

Client Sample ID: SW-1 (6')

Lab Sample ID: 880-20421-45

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/22/22 21:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/19/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37189	10/18/22 08:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37192	10/18/22 11:46	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 00:40	CH	EET MID

Client Sample ID: SW-2 (6')

Lab Sample ID: 880-20421-46

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/22/22 22:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/19/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37189	10/18/22 08:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37192	10/18/22 12:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 00:45	CH	EET MID

Client Sample ID: SW-3 (6')

Lab Sample ID: 880-20421-47

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/22/22 22:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/19/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	37189	10/18/22 08:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37192	10/18/22 13:11	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (6')

Lab Sample ID: 880-20421-47

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 00:50	CH	EET MID

Client Sample ID: SW-4 (6')

Lab Sample ID: 880-20421-48

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/22/22 22:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/19/22 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37189	10/18/22 08:41	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37192	10/18/22 13:32	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 00:55	CH	EET MID

Client Sample ID: SW-5 (6')

Lab Sample ID: 880-20421-49

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/22/22 23:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	37126	10/17/22 10:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37035	10/17/22 17:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 00:59	CH	EET MID

Client Sample ID: SW-6 (6')

Lab Sample ID: 880-20421-50

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/22/22 23:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37126	10/17/22 10:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37035	10/17/22 17:54	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		5			37230	10/19/22 01:04	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: SW-7 (6')

Lab Sample ID: 880-20421-51

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/23/22 00:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37126	10/17/22 10:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37035	10/17/22 18:21	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 01:19	CH	EET MID

Client Sample ID: SW-8 (6')

Lab Sample ID: 880-20421-52

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/23/22 01:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	37126	10/17/22 10:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37035	10/17/22 18:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 01:24	CH	EET MID

Client Sample ID: SW-9 (6')

Lab Sample ID: 880-20421-53

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/23/22 01:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37126	10/17/22 10:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37035	10/17/22 19:03	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 01:38	CH	EET MID

Client Sample ID: SW-10 (6')

Lab Sample ID: 880-20421-54

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/17/22 09:23

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	37161	10/17/22 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37450	10/23/22 01:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37519	10/24/22 16:16	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Client Sample ID: SW-10 (6')
Date Collected: 10/13/22 00:00
Date Received: 10/17/22 09:23

Lab Sample ID: 880-20421-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			37212	10/18/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37126	10/17/22 10:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37035	10/17/22 19:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	37140	10/17/22 11:33	KS	EET MID
Soluble	Analysis	300.0		1			37230	10/19/22 01:43	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
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Method Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20421-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20421-1	CS-1 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-2	CS-2 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-3	CS-3 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-4	CS-4 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-5	CS-5 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-6	CS-6 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-7	CS-7 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-8	CS-8 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-9	CS-9 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-10	CS-10 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-11	CS-11 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-12	CS-12 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-13	CS-13 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-14	CS-14 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-15	CS-15 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-16	CS-16 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-17	CS-17 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-18	CS-18 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-19	CS-19 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-20	CS-20 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-21	CS-21 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-22	CS-22 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-23	CS-23 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-24	CS-24 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-25	CS-25 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-26	CS-26 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-27	CS-27 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-28	CS-28 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-29	CS-29 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-30	CS-30 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-31	CS-31 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-32	CS-32 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-33	CS-33 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-34	CS-34 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-35	CS-35 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-36	CS-36 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-37	CS-37 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-38	CS-38 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-39	CS-39 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-40	CS-40 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-41	CS-41 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-42	CS-42 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-43	CS-43 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-44	CS-44 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-45	SW-1 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-46	SW-2 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-47	SW-3 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-48	SW-4 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-49	SW-5 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-50	SW-6 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-51	SW-7 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-52	SW-8 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-53	SW-9 (6')	Solid	10/13/22 00:00	10/17/22 09:23
880-20421-54	SW-10 (6')	Solid	10/13/22 00:00	10/17/22 09:23

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Work Order No: 20421

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Project Manager	Clinton Merritt	Bill to (if different)	Melodie Sanjari
Company Name	Carmora Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 415	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	msanjari@marathonoil.com

Work Order Comments			
Program: UST/PST	☐ PRP	☐ Brownfields	☐ RC
State of Project:	☐ Level II	☐ Level III	☐ ST/UST
Reporting Level II	☐ Level III	☐ ST/UST	☐ RRP
Deliverables	EDD	☐ ADAPT	☐ Other

Project Name	Warren State #1		Turn Around	Pres. Code	ANALYSIS REQUEST										Preservative Codes			
Project Number	1139		☒ Routine ☐ Rush												None NO	DI Water H ₂ O		
Project Location	Lea County, New Mexico		Due Date	5 Day TOT											Cool Cool	MeOH Me		
Sampler's Name	CCM														HCL HC	HNO ₃ HN		
PO #															H ₂ SO ₄ H ₂	NaOH Na		
SAMPLE RECEIPT	Temp Blank	Yes ☒ No ☐	Thermometer ID	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐											H ₃ PO ₄ HP	
Received Inact:	Yes ☒ No ☐	Correction Factor	Yes ☒ No ☐	Temperature Reading	Yes ☒ No ☐	Corrected Temperature											NaHSO ₄ NABIS	
Cooler Custody Seals	Yes ☒ No ☐	Temperature Reading	Yes ☒ No ☐	Corrected Temperature	Yes ☒ No ☐	Corrected Temperature											Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes ☒ No ☐	Temperature Reading	Yes ☒ No ☐	Corrected Temperature	Yes ☒ No ☐	Corrected Temperature											Zn Acetate+NaOH Zn	
Total Containers																	NaOH+Ascorbic Acid SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments
CS-1 (6)	10/13/2022	13 50	X		Comp	1	X	X	X	X							
CS-2 (6)	10/13/2022	13 55	X		Comp	1	X	X	X	X							
CS-3 (6)	10/13/2022	14 00	X		Comp	1	X	X	X	X							
CS-4 (6)	10/13/2022	14 05	X		Comp	1	X	X	X	X							
CS-5 (6)	10/13/2022	14 10	X		Comp	1	X	X	X	X							
CS-6 (6)	10/13/2022	14 15	X		Comp	1	X	X	X	X							
CS-7 (6)	10/13/2022	14 20	X		Comp	1	X	X	X	X							
CS-8 (6)	10/13/2022	14 25	X		Comp	1	X	X	X	X							
CS-9 (6)	10/13/2022	14 30	X		Comp	1	X	X	X	X							
CS-10 (6)	10/13/2022	14 35	X		Comp	1	X	X	X	X							



880-20421 Chain of Custody

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	10/17/22		9/23

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Work Order No: 20421

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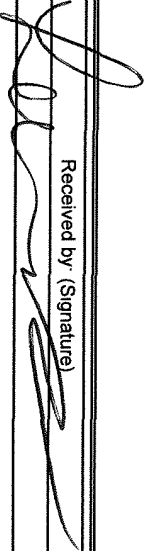
Project Manager	Clinton Merritt	Bill to (if different)	Melodie Sanjari
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 415	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	msanjari@marathonoil.com

Work Order Comments			
Program: UST/PST	☐ PRP	☐ Brownfields	☐ RRC
State of Project:			☐ Superfund
Reporting Level II	☐ Level III	☐ ST/UST	☐ RRP
Deliverables EDD	☐ ADAPT	☐	☐ Level IV
			☐ Other

Project Name	Warren State #1		Turn Around	Press. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number	1139		☒ Routine ☐ Rush													None, NO	DI Water, H ₂ O	
Project Location	Lea County, New Mexico		Due Date	5 Day TOT												Cool, Cool	MeOH, Me	
Sampler's Name	CCM															HCL, HC	HNO ₃ , HN	
PO #:																H ₂ SO ₄ , H ₂	NaOH, Na	
SAMPLE RECEIPT	Temp Blank	Yes No	Thermometer ID	Yes No	Wet Ice	Yes No										H ₃ PO ₄ , HP		
Received Intact:	Yes No		Correction Factor													NaHSO ₄ , NABIS		
Cooler Custody Seals	Yes No	N/A	Temperature Reading:													Na ₂ S ₂ O ₃ , NaSO ₃		
Sample Custody Seals	Yes No	N/A	Corrected Temperature:													Zn Acetate+NaOH, Zn		
Total Containers																NaOH+Ascorbic Acid, SAPC		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST												Preservative Codes	
CS-11 (6)	10/13/2022	14 40	X		Comp	1	X	X	X	X										
CS-12 (6)	10/13/2022	14 45	X		Comp	1	X	X	X	X										
CS-13 (6)	10/13/2022	14 50	X		Comp	1	X	X	X	X										
CS-14 (6)	10/13/2022	14 55	X		Comp	1	X	X	X	X										
CS-15 (6)	10/14/2022	10 40	X		Comp	1	X	X	X	X										
CS-16 (6)	10/14/2022	10 45	X		Comp	1	X	X	X	X										
CS-17 (6)	10/14/2022	10 50	X		Comp	1	X	X	X	X										
CS-18 (6)	10/14/2022	10 55	X		Comp	1	X	X	X	X										
CS-19 (6)	10/14/2022	11 00	X		Comp	1	X	X	X	X										
CS-20 (6)	10/14/2022	11 05	X		Comp	1	X	X	X	X										

Comments

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	10/17/22		923

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Work Order No: 20421

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Project Manager	Clinton Merritt	Bill to (if different)	Melodie Sanjari
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 415	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston, TX 77024
Phone		Email	msanjari@marathonoil.com

Work Order Comments	
Program: UST/PT	☐ PRP ☐ Brownfields ☐ RC ☐ Inertund ☐
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables EDD	☐ ADAPT ☐ Other

Project Name		Warren State #1		Turn Around			Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number	1139	☐ Routine	☐ Rush	Due Date	5 Day TOT	None NO		DI Water H ₂ O														
Project Location	Lea County, New Mexico																Cool Cool	MeOH Me				
Sampler's Name	CCM																HCL HC	HNO ₃ HN				
PO #:																	H ₂ SO ₄ H ₂	NaOH Na				
SAMPLE RECEIPT				Temp Blank	Yes No	Yes No	Wet Ice	Yes No										H ₃ PO ₄ HP				
Received Intact:				Yes No	Thermometer ID													NaHSO ₄ , NABIS				
Cooler Custody Seals				Yes No N/A	Correction Factor													Na ₂ S ₂ O ₃ , NaSCN				
Sample Custody Seals				Yes No N/A	Temperature Reading.													Zn Acetate+NaOH Zn				
Total Containers				Corrected Temperature														NaOH+Ascorbic Acid SAPC				
Sample Identification			Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-21 (6)			10/14/2022	11 10	X		Comp	1	X	X	X											
CS-22 (6)			10/14/2022	11 15	X		Comp	1	X	X	X											
CS-23 (6)			10/14/2022	11 20	X		Comp	1	X	X	X											
CS-24 (6)			10/14/2022	11 25	X		Comp	1	X	X	X											
CS-25 (6)			10/14/2022	11 30	X		Comp	1	X	X	X											
CS-26 (6)			10/14/2022	11 35	X		Comp	1	X	X	X											
CS-27 (6)			10/14/2022	11 40	X		Comp	1	X	X	X											
CS-28 (6)			10/14/2022	11 45	X		Comp	1	X	X	X											
CS-29 (6)			10/14/2022	11 50	X		Comp	1	X	X	X											
CS-30 (6)			10/14/2022	11 55	X		Comp	1	X	X	X											

Relinquished by (Signature)		Date/Time	Received by (Signature)		Date/Time
		10/17/22			
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Work Order No: 20421

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Project Manager	Clinton Merritt	Bill to (if different)	Melodie Sanjari
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 415	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston, TX 77024
Phone		Email	msanjari@marathonoil.com

Work Order Comments	
Program: UST/PST ☐ P RP ☐ Brownfields ☐ RC ☐ Interfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Warren State #1		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number	1139		☒ Routine	☐ Rush														None NO	DI Water H ₂ O	
Project Location	Lea County, New Mexico		Due Date	5 Day TOT														Cool Cool	MeOH Me	
Sampler's Name	CCM																	HCL HC	HNO ₃ HN	
PO #:																	H ₂ SO ₄ H ₂	NaOH Na		
SAMPLE RECEIPT	Temp Blank	Yes	No	Wet Ice	Yes	No													H ₃ PO ₄ HP	
Received Intact:	Yes	No	Thermometer ID													NaHSO ₄ NABIS				
Cooler Custody Seals	Yes	No	Correction Factor													Na ₂ S ₂ O ₃ NaSO ₃				
Sample Custody Seals	Yes	No	Temperature Reading													Zn Acetate+NaOH Zn				
Total Containers			Corrected Temperature													NaOH+Ascorbic Acid SAPC				

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
CS-31 (6)	10/14/2022	12 00	X		Comp	1	X	X	X										
CS-32 (6)	10/14/2022	12 05	X		Comp	1	X	X	X										
CS-33 (6)	10/14/2022	12 10	X		Comp	1	X	X	X										
CS-34 (6)	10/14/2022	12 15	X		Comp	1	X	X	X										
CS-35 (6)	10/14/2022	12 20	X		Comp	1	X	X	X										
CS-36 (6)	10/14/2022	12 25	X		Comp	1	X	X	X										
CS-37 (6)	10/14/2022	12 30	X		Comp	1	X	X	X										
CS-38 (6)	10/14/2022	12 35	X		Comp	1	X	X	X										
CS-39 (6)	10/14/2022	12 40	X		Comp	1	X	X	X										
CS-40 (6)	10/14/2022	12 45	X		Comp	1	X	X	X										

Comments	
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Date/Time	10/17/22
923	
Received by (Signature)	
Date/Time	

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Work Order No: 20421

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Project Manager	Clinton Merritt	Bill to: (if different)	Melodie Sanjari
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 415	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston, TX 77024
Phone		Email	msanjar@marathonoil.com

Work Order Comments	
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RRC ☐ Iperfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ STUST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other	

Project Name	Warren State #1			Turn Around			Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number	1139			☒ Routine	☐ Rush												None NO	DI Water H ₂ O				
Project Location	Lea County, New Mexico			Due Date	5 Day TOT												Cool Cool	MeOH Me				
Sampler's Name	CCM																HCL, HC	HNO ₃ HN				
PO #:																	H ₂ SO ₄ H ₂	NaOH Na				
SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No				Parameters												H ₃ PO ₄ , HP		
Received Intact	Yes No	Thermometer ID					BTEX 8021B												NaHSO ₄ NABIS			
Cooler Custody Seals	Yes No N/A	Correction Factor					TPH 8015M (GRO + DRO + MRO)												Na ₂ S ₂ O ₃ , NaSO ₃			
Sample Custody Seals	Yes No N/A	Temperature Reading					Chloride 300.0												Zn Acetate+NaOH Zn			
Total Containers	Corrected Temperature																		NaOH+Ascorbic Acid SAPC			
Sample Identification				Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
CS-41 (6)				10/14/2022	12 50	X		Comp	1	X	X	X	X									
CS-42 (6)				10/14/2022	12 55	X		Comp	1	X	X	X	X									
CS-43 (6)				10/14/2022	13 00	X		Comp	1	X	X	X	X									
CS-44 (6)				10/14/2022	13 05	X		Comp	1	X	X	X	X									
SW-1 (6)				10/13/2022	13 00	X		Comp	1	X	X	X	X									
SW-2 (6)				10/13/2022	13 05	X		Comp	1	X	X	X	X									
SW-3 (6)				10/13/2022	13 10	X		Comp	1	X	X	X	X									
SW-4 (6)				10/13/2022	13 15	X		Comp	1	X	X	X	X									
SW-5 (6)				10/13/2022	13 20	X		Comp	1	X	X	X	X									
SW-6 (6)				10/13/2022	13 25	X		Comp	1	X	X	X	X									

Comments.

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	10/17/22		
	923		

Work Order No: 20421

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-20421-1

SDG Number: Lea County, New Mexico

Login Number: 20421

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-20849-1

Laboratory Sample Delivery Group: Lea County, New Mexico
Client Project/Site: Warren State #1

For:

Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Attn: Clint Merritt

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

11/2/2022 3:44:28 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Carmona Resources
Project/Site: Warren State #1

Laboratory Job ID: 880-20849-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Job ID: 880-20849-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-20849-1**

Receipt

The samples were received on 10/27/2022 10:31 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-3 (6') (880-20849-1), SW-4 (6') (880-20849-2), SW-5 (6') (880-20849-3), SW-6 (6') (880-20849-4), SW-8 (6') (880-20849-5), SW-9 (6') (880-20849-6), SW-10 (6') (880-20849-7), CS-45 (6') (880-20849-8) and CS-46 (6') (880-20849-9).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-38292 and analytical batch 880-38317 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-20849-A-1-E MS) and (880-20849-A-1-F MSD). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3291-A-1-B), (890-3291-A-1-C MS) and (890-3291-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (6')

Lab Sample ID: 880-20849-1

Date Collected: 10/26/22 16:00

Matrix: Solid

Date Received: 10/27/22 10:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1 F2	0.00201		mg/Kg		10/31/22 13:44	11/01/22 12:04	1
Toluene	<0.00201	U F1 F2	0.00201		mg/Kg		10/31/22 13:44	11/01/22 12:04	1
Ethylbenzene	<0.00201	U F1 F2	0.00201		mg/Kg		10/31/22 13:44	11/01/22 12:04	1
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.00402		mg/Kg		10/31/22 13:44	11/01/22 12:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/31/22 13:44	11/01/22 12:04	1
Xylenes, Total	<0.00402	U F1 F2	0.00402		mg/Kg		10/31/22 13:44	11/01/22 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/31/22 13:44	11/01/22 12:04	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/31/22 13:44	11/01/22 12:04	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			11/01/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 05:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 05:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 05:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	10/27/22 15:04	10/30/22 05:27	1
o-Terphenyl	86		70 - 130	10/27/22 15:04	10/30/22 05:27	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.9		4.99		mg/Kg			11/01/22 14:08	1

Client Sample ID: SW-4 (6')

Lab Sample ID: 880-20849-2

Date Collected: 10/26/22 16:05

Matrix: Solid

Date Received: 10/27/22 10:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 12:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 12:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 12:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/31/22 13:44	11/01/22 12:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 12:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/31/22 13:44	11/01/22 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/31/22 13:44	11/01/22 12:25	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/31/22 13:44	11/01/22 12:25	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Client Sample ID: SW-4 (6')

Lab Sample ID: 880-20849-2

Date Collected: 10/26/22 16:05

Matrix: Solid

Date Received: 10/27/22 10:31

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			11/01/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/22 15:04	10/30/22 05:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/22 15:04	10/30/22 05:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/22 15:04	10/30/22 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				10/27/22 15:04	10/30/22 05:48	1
o-Terphenyl	85		70 - 130				10/27/22 15:04	10/30/22 05:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.5		5.02		mg/Kg			11/01/22 14:23	1

Client Sample ID: SW-5 (6')

Lab Sample ID: 880-20849-3

Date Collected: 10/26/22 16:10

Matrix: Solid

Date Received: 10/27/22 10:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 12:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 12:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 12:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/31/22 13:44	11/01/22 12:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 12:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/31/22 13:44	11/01/22 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				10/31/22 13:44	11/01/22 12:46	1
1,4-Difluorobenzene (Surr)	107		70 - 130				10/31/22 13:44	11/01/22 12:46	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			11/01/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/22 15:04	10/30/22 03:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/22 15:04	10/30/22 03:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Client Sample ID: SW-5 (6')

Lab Sample ID: 880-20849-3

Date Collected: 10/26/22 16:10

Matrix: Solid

Date Received: 10/27/22 10:31

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		10/27/22 15:04	10/30/22 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				10/27/22 15:04	10/30/22 03:41	1
o-Terphenyl	90		70 - 130				10/27/22 15:04	10/30/22 03:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.4		5.01		mg/Kg			11/01/22 14:28	1

Client Sample ID: SW-6 (6')

Lab Sample ID: 880-20849-4

Date Collected: 10/26/22 16:15

Matrix: Solid

Date Received: 10/27/22 10:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 13:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 13:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 13:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/31/22 13:44	11/01/22 13:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 13:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/31/22 13:44	11/01/22 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				10/31/22 13:44	11/01/22 13:06	1
1,4-Difluorobenzene (Surr)	108		70 - 130				10/31/22 13:44	11/01/22 13:06	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			11/01/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 04:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 04:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				10/27/22 15:04	10/30/22 04:02	1
o-Terphenyl	82		70 - 130				10/27/22 15:04	10/30/22 04:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		4.97		mg/Kg			11/01/22 14:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Client Sample ID: SW-8 (6')

Lab Sample ID: 880-20849-5

Date Collected: 10/26/22 16:20

Matrix: Solid

Date Received: 10/27/22 10:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 13:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 13:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 13:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/31/22 13:44	11/01/22 13:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 13:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/31/22 13:44	11/01/22 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	10/31/22 13:44	11/01/22 13:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/31/22 13:44	11/01/22 13:27	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			11/01/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/31/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 04:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 04:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	10/27/22 15:04	10/30/22 04:23	1
o-Terphenyl	85		70 - 130	10/27/22 15:04	10/30/22 04:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.8		4.98		mg/Kg			11/01/22 14:38	1

Client Sample ID: SW-9 (6')

Lab Sample ID: 880-20849-6

Date Collected: 10/26/22 16:25

Matrix: Solid

Date Received: 10/27/22 10:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 13:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 13:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 13:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/31/22 13:44	11/01/22 13:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 13:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/31/22 13:44	11/01/22 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/31/22 13:44	11/01/22 13:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/31/22 13:44	11/01/22 13:48	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Client Sample ID: SW-9 (6')

Lab Sample ID: 880-20849-6

Date Collected: 10/26/22 16:25

Matrix: Solid

Date Received: 10/27/22 10:31

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			11/01/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/22 15:04	10/30/22 04:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/22 15:04	10/30/22 04:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/22 15:04	10/30/22 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				10/27/22 15:04	10/30/22 04:45	1
o-Terphenyl	80		70 - 130				10/27/22 15:04	10/30/22 04:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.8		4.95		mg/Kg			11/01/22 14:53	1

Client Sample ID: SW-10 (6')

Lab Sample ID: 880-20849-7

Date Collected: 10/26/22 16:30

Matrix: Solid

Date Received: 10/27/22 10:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 14:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 14:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 14:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/31/22 13:44	11/01/22 14:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 14:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/31/22 13:44	11/01/22 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				10/31/22 13:44	11/01/22 14:09	1
1,4-Difluorobenzene (Surr)	109		70 - 130				10/31/22 13:44	11/01/22 14:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/01/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/31/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/22 15:04	10/30/22 05:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/22 15:04	10/30/22 05:06	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Client Sample ID: SW-10 (6')

Lab Sample ID: 880-20849-7

Date Collected: 10/26/22 16:30

Matrix: Solid

Date Received: 10/27/22 10:31

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		10/27/22 15:04	10/30/22 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				10/27/22 15:04	10/30/22 05:06	1
o-Terphenyl	86		70 - 130				10/27/22 15:04	10/30/22 05:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.4		5.05		mg/Kg			11/01/22 14:57	1

Client Sample ID: CS-45 (6')

Lab Sample ID: 880-20849-8

Date Collected: 10/26/22 16:35

Matrix: Solid

Date Received: 10/27/22 10:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 14:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 14:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 14:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/31/22 13:44	11/01/22 14:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 14:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/31/22 13:44	11/01/22 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				10/31/22 13:44	11/01/22 14:30	1
1,4-Difluorobenzene (Surr)	106		70 - 130				10/31/22 13:44	11/01/22 14:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/01/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.2		50.0		mg/Kg			10/31/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 06:10	1
Diesel Range Organics (Over C10-C28)	73.2		50.0		mg/Kg		10/27/22 15:04	10/30/22 06:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/30/22 06:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				10/27/22 15:04	10/30/22 06:10	1
o-Terphenyl	82		70 - 130				10/27/22 15:04	10/30/22 06:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		25.2		mg/Kg			11/01/22 15:02	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Client Sample ID: CS-46 (6')

Lab Sample ID: 880-20849-9

Date Collected: 10/26/22 16:40

Matrix: Solid

Date Received: 10/27/22 10:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 14:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 14:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 14:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/31/22 13:44	11/01/22 14:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 14:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/31/22 13:44	11/01/22 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/31/22 13:44	11/01/22 14:50	1
1,4-Difluorobenzene (Surr)	112		70 - 130	10/31/22 13:44	11/01/22 14:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/01/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.4		49.8		mg/Kg			10/31/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/27/22 15:04	10/30/22 06:31	1
Diesel Range Organics (Over C10-C28)	76.4		49.8		mg/Kg		10/27/22 15:04	10/30/22 06:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/27/22 15:04	10/30/22 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	10/27/22 15:04	10/30/22 06:31	1
o-Terphenyl	84		70 - 130	10/27/22 15:04	10/30/22 06:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2250		25.1		mg/Kg			11/01/22 15:07	5

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Surrogate Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-20849-1	SW-3 (6')	98	94				
880-20849-1 MS	SW-3 (6')	42 S1-	72				
880-20849-1 MSD	SW-3 (6')	95	95				
880-20849-2	SW-4 (6')	105	111				
880-20849-3	SW-5 (6')	103	107				
880-20849-4	SW-6 (6')	122	108				
880-20849-5	SW-8 (6')	113	107				
880-20849-6	SW-9 (6')	109	100				
880-20849-7	SW-10 (6')	110	109				
880-20849-8	CS-45 (6')	112	106				
880-20849-9	CS-46 (6')	110	112				
LCS 880-38292/1-A	Lab Control Sample	86	90				
LCSD 880-38292/2-A	Lab Control Sample Dup	74	92				
MB 880-38292/5-A	Method Blank	96	101				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-20849-1	SW-3 (6')	84	86				
880-20849-2	SW-4 (6')	84	85				
880-20849-3	SW-5 (6')	87	90				
880-20849-4	SW-6 (6')	79	82				
880-20849-5	SW-8 (6')	84	85				
880-20849-6	SW-9 (6')	81	80				
880-20849-7	SW-10 (6')	85	86				
880-20849-8	CS-45 (6')	82	82				
880-20849-9	CS-46 (6')	83	84				
890-3291-A-1-C MS	Matrix Spike	105	175 S1+				
890-3291-A-1-D MSD	Matrix Spike Duplicate	101	169 S1+				
LCS 880-38030/2-A	Lab Control Sample	110	113				
LCSD 880-38030/3-A	Lab Control Sample Dup	104	103				
MB 880-38030/1-A	Method Blank	83	86				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38292/5-A

Matrix: Solid

Analysis Batch: 38317

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/31/22 13:44	11/01/22 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/31/22 13:44	11/01/22 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/31/22 13:44	11/01/22 11:42	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/31/22 13:44	11/01/22 11:42	1

Lab Sample ID: LCS 880-38292/1-A

Matrix: Solid

Analysis Batch: 38317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08466		mg/Kg		85	70 - 130
Toluene	0.100	0.09195		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.08924		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1621		mg/Kg		81	70 - 130
o-Xylene	0.100	0.09116		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-38292/2-A

Matrix: Solid

Analysis Batch: 38317

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 38292

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08006		mg/Kg		80	70 - 130	6	35
Toluene	0.100	0.08417		mg/Kg		84	70 - 130	9	35
Ethylbenzene	0.100	0.08077		mg/Kg		81	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1473		mg/Kg		74	70 - 130	10	35
o-Xylene	0.100	0.08231		mg/Kg		82	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	74		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-20849-1 MS

Matrix: Solid

Analysis Batch: 38317

Client Sample ID: SW-3 (6')

Prep Type: Total/NA

Prep Batch: 38292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.100	0.05449	F1	mg/Kg		53	70 - 130
Toluene	<0.00201	U F1 F2	0.100	0.007232	F1	mg/Kg		7	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-20849-1 MS

Matrix: Solid

Analysis Batch: 38317

Client Sample ID: SW-3 (6')

Prep Type: Total/NA

Prep Batch: 38292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1 F2	0.100	0.05799	F1	mg/Kg		58	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.201	0.02080	F1	mg/Kg		10	70 - 130
o-Xylene	<0.00201	U	0.100	0.08906		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	42	S1-	70 - 130
1,4-Difluorobenzene (Surr)	72		70 - 130

Lab Sample ID: 880-20849-1 MSD

Matrix: Solid

Analysis Batch: 38317

Client Sample ID: SW-3 (6')

Prep Type: Total/NA

Prep Batch: 38292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0990	0.08306	F2	mg/Kg		83	70 - 130	42	35
Toluene	<0.00201	U F1 F2	0.0990	0.08825	F2	mg/Kg		89	70 - 130	170	35
Ethylbenzene	<0.00201	U F1 F2	0.0990	0.08782	F2	mg/Kg		89	70 - 130	41	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.198	0.1682	F2	mg/Kg		85	70 - 130	156	35
o-Xylene	<0.00201	U	0.0990	0.09392		mg/Kg		95	70 - 130	5	35

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

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

Lab Sample ID: MB 880-38030/1-A

Matrix: Solid

Analysis Batch: 38135

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/29/22 21:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/29/22 21:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/22 15:04	10/29/22 21:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	10/27/22 15:04	10/29/22 21:37	1
o-Terphenyl	86		70 - 130	10/27/22 15:04	10/29/22 21:37	1

Lab Sample ID: LCS 880-38030/2-A

Matrix: Solid

Analysis Batch: 38135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	820.2		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1025		mg/Kg		102	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-38030/2-A
Matrix: Solid
Analysis Batch: 38135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38030

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

Lab Sample ID: LCSD 880-38030/3-A
Matrix: Solid
Analysis Batch: 38135

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38030

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	811.4		mg/Kg		81	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	945.5		mg/Kg		95	70 - 130	8	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	104										
o-Terphenyl	103										

Lab Sample ID: 890-3291-A-1-C MS
Matrix: Solid
Analysis Batch: 38135

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 38030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	321		998	1085		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	5750		998	6103	4	mg/Kg		35	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	105										
o-Terphenyl	175	S1+									

Lab Sample ID: 890-3291-A-1-D MSD
Matrix: Solid
Analysis Batch: 38135

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 38030

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	321		998	1054		mg/Kg		74	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	5750		998	5872	4	mg/Kg		12	70 - 130	4	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	101										
o-Terphenyl	169	S1+									

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38087/1-A

Matrix: Solid

Analysis Batch: 38378

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			11/01/22 13:53	1

Lab Sample ID: LCS 880-38087/2-A

Matrix: Solid

Analysis Batch: 38378

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.7		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-38087/3-A

Matrix: Solid

Analysis Batch: 38378

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	258.1		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-20849-1 MS

Matrix: Solid

Analysis Batch: 38378

Client Sample ID: SW-3 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	37.9		250	276.3		mg/Kg		96	90 - 110

Lab Sample ID: 880-20849-1 MSD

Matrix: Solid

Analysis Batch: 38378

Client Sample ID: SW-3 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37.9		250	276.3		mg/Kg		96	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 38292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20849-1	SW-3 (6')	Total/NA	Solid	5035	
880-20849-2	SW-4 (6')	Total/NA	Solid	5035	
880-20849-3	SW-5 (6')	Total/NA	Solid	5035	
880-20849-4	SW-6 (6')	Total/NA	Solid	5035	
880-20849-5	SW-8 (6')	Total/NA	Solid	5035	
880-20849-6	SW-9 (6')	Total/NA	Solid	5035	
880-20849-7	SW-10 (6')	Total/NA	Solid	5035	
880-20849-8	CS-45 (6')	Total/NA	Solid	5035	
880-20849-9	CS-46 (6')	Total/NA	Solid	5035	
MB 880-38292/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38292/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38292/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20849-1 MS	SW-3 (6')	Total/NA	Solid	5035	
880-20849-1 MSD	SW-3 (6')	Total/NA	Solid	5035	

Analysis Batch: 38317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20849-1	SW-3 (6')	Total/NA	Solid	8021B	38292
880-20849-2	SW-4 (6')	Total/NA	Solid	8021B	38292
880-20849-3	SW-5 (6')	Total/NA	Solid	8021B	38292
880-20849-4	SW-6 (6')	Total/NA	Solid	8021B	38292
880-20849-5	SW-8 (6')	Total/NA	Solid	8021B	38292
880-20849-6	SW-9 (6')	Total/NA	Solid	8021B	38292
880-20849-7	SW-10 (6')	Total/NA	Solid	8021B	38292
880-20849-8	CS-45 (6')	Total/NA	Solid	8021B	38292
880-20849-9	CS-46 (6')	Total/NA	Solid	8021B	38292
MB 880-38292/5-A	Method Blank	Total/NA	Solid	8021B	38292
LCS 880-38292/1-A	Lab Control Sample	Total/NA	Solid	8021B	38292
LCSD 880-38292/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38292
880-20849-1 MS	SW-3 (6')	Total/NA	Solid	8021B	38292
880-20849-1 MSD	SW-3 (6')	Total/NA	Solid	8021B	38292

Analysis Batch: 38424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20849-1	SW-3 (6')	Total/NA	Solid	Total BTEX	
880-20849-2	SW-4 (6')	Total/NA	Solid	Total BTEX	
880-20849-3	SW-5 (6')	Total/NA	Solid	Total BTEX	
880-20849-4	SW-6 (6')	Total/NA	Solid	Total BTEX	
880-20849-5	SW-8 (6')	Total/NA	Solid	Total BTEX	
880-20849-6	SW-9 (6')	Total/NA	Solid	Total BTEX	
880-20849-7	SW-10 (6')	Total/NA	Solid	Total BTEX	
880-20849-8	CS-45 (6')	Total/NA	Solid	Total BTEX	
880-20849-9	CS-46 (6')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20849-1	SW-3 (6')	Total/NA	Solid	8015NM Prep	
880-20849-2	SW-4 (6')	Total/NA	Solid	8015NM Prep	
880-20849-3	SW-5 (6')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 38030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20849-4	SW-6 (6')	Total/NA	Solid	8015NM Prep	
880-20849-5	SW-8 (6')	Total/NA	Solid	8015NM Prep	
880-20849-6	SW-9 (6')	Total/NA	Solid	8015NM Prep	
880-20849-7	SW-10 (6')	Total/NA	Solid	8015NM Prep	
880-20849-8	CS-45 (6')	Total/NA	Solid	8015NM Prep	
880-20849-9	CS-46 (6')	Total/NA	Solid	8015NM Prep	
MB 880-38030/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38030/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3291-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3291-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20849-1	SW-3 (6')	Total/NA	Solid	8015B NM	38030
880-20849-2	SW-4 (6')	Total/NA	Solid	8015B NM	38030
880-20849-3	SW-5 (6')	Total/NA	Solid	8015B NM	38030
880-20849-4	SW-6 (6')	Total/NA	Solid	8015B NM	38030
880-20849-5	SW-8 (6')	Total/NA	Solid	8015B NM	38030
880-20849-6	SW-9 (6')	Total/NA	Solid	8015B NM	38030
880-20849-7	SW-10 (6')	Total/NA	Solid	8015B NM	38030
880-20849-8	CS-45 (6')	Total/NA	Solid	8015B NM	38030
880-20849-9	CS-46 (6')	Total/NA	Solid	8015B NM	38030
MB 880-38030/1-A	Method Blank	Total/NA	Solid	8015B NM	38030
LCS 880-38030/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38030
LCSD 880-38030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38030
890-3291-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	38030
890-3291-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38030

Analysis Batch: 38282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20849-1	SW-3 (6')	Total/NA	Solid	8015 NM	
880-20849-2	SW-4 (6')	Total/NA	Solid	8015 NM	
880-20849-3	SW-5 (6')	Total/NA	Solid	8015 NM	
880-20849-4	SW-6 (6')	Total/NA	Solid	8015 NM	
880-20849-5	SW-8 (6')	Total/NA	Solid	8015 NM	
880-20849-6	SW-9 (6')	Total/NA	Solid	8015 NM	
880-20849-7	SW-10 (6')	Total/NA	Solid	8015 NM	
880-20849-8	CS-45 (6')	Total/NA	Solid	8015 NM	
880-20849-9	CS-46 (6')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20849-1	SW-3 (6')	Soluble	Solid	DI Leach	
880-20849-2	SW-4 (6')	Soluble	Solid	DI Leach	
880-20849-3	SW-5 (6')	Soluble	Solid	DI Leach	
880-20849-4	SW-6 (6')	Soluble	Solid	DI Leach	
880-20849-5	SW-8 (6')	Soluble	Solid	DI Leach	
880-20849-6	SW-9 (6')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 38087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20849-7	SW-10 (6')	Soluble	Solid	DI Leach	
880-20849-8	CS-45 (6')	Soluble	Solid	DI Leach	
880-20849-9	CS-46 (6')	Soluble	Solid	DI Leach	
MB 880-38087/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38087/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38087/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20849-1 MS	SW-3 (6')	Soluble	Solid	DI Leach	
880-20849-1 MSD	SW-3 (6')	Soluble	Solid	DI Leach	

Analysis Batch: 38378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20849-1	SW-3 (6')	Soluble	Solid	300.0	38087
880-20849-2	SW-4 (6')	Soluble	Solid	300.0	38087
880-20849-3	SW-5 (6')	Soluble	Solid	300.0	38087
880-20849-4	SW-6 (6')	Soluble	Solid	300.0	38087
880-20849-5	SW-8 (6')	Soluble	Solid	300.0	38087
880-20849-6	SW-9 (6')	Soluble	Solid	300.0	38087
880-20849-7	SW-10 (6')	Soluble	Solid	300.0	38087
880-20849-8	CS-45 (6')	Soluble	Solid	300.0	38087
880-20849-9	CS-46 (6')	Soluble	Solid	300.0	38087
MB 880-38087/1-A	Method Blank	Soluble	Solid	300.0	38087
LCS 880-38087/2-A	Lab Control Sample	Soluble	Solid	300.0	38087
LCSD 880-38087/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38087
880-20849-1 MS	SW-3 (6')	Soluble	Solid	300.0	38087
880-20849-1 MSD	SW-3 (6')	Soluble	Solid	300.0	38087

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (6')

Lab Sample ID: 880-20849-1

Date Collected: 10/26/22 16:00

Matrix: Solid

Date Received: 10/27/22 10:31

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 12:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38424	11/01/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			38282	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 05:27	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38087	10/28/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38378	11/01/22 14:08	CH	EET MID

Client Sample ID: SW-4 (6')

Lab Sample ID: 880-20849-2

Date Collected: 10/26/22 16:05

Matrix: Solid

Date Received: 10/27/22 10:31

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 12:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38424	11/01/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			38282	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 05:48	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	38087	10/28/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38378	11/01/22 14:23	CH	EET MID

Client Sample ID: SW-5 (6')

Lab Sample ID: 880-20849-3

Date Collected: 10/26/22 16:10

Matrix: Solid

Date Received: 10/27/22 10:31

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 12:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38424	11/01/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			38282	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 03:41	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	38087	10/28/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38378	11/01/22 14:28	CH	EET MID

Client Sample ID: SW-6 (6')

Lab Sample ID: 880-20849-4

Date Collected: 10/26/22 16:15

Matrix: Solid

Date Received: 10/27/22 10:31

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 13:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38424	11/01/22 15:29	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Client Sample ID: SW-6 (6')

Lab Sample ID: 880-20849-4

Date Collected: 10/26/22 16:15

Matrix: Solid

Date Received: 10/27/22 10:31

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			38282	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 04:02	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	38087	10/28/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38378	11/01/22 14:33	CH	EET MID

Client Sample ID: SW-8 (6')

Lab Sample ID: 880-20849-5

Date Collected: 10/26/22 16:20

Matrix: Solid

Date Received: 10/27/22 10:31

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 13:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38424	11/01/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			38282	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 04:23	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38087	10/28/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38378	11/01/22 14:38	CH	EET MID

Client Sample ID: SW-9 (6')

Lab Sample ID: 880-20849-6

Date Collected: 10/26/22 16:25

Matrix: Solid

Date Received: 10/27/22 10:31

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38424	11/01/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			38282	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 04:45	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38087	10/28/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38378	11/01/22 14:53	CH	EET MID

Client Sample ID: SW-10 (6')

Lab Sample ID: 880-20849-7

Date Collected: 10/26/22 16:30

Matrix: Solid

Date Received: 10/27/22 10:31

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38424	11/01/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			38282	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 05:06	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Client Sample ID: SW-10 (6')

Lab Sample ID: 880-20849-7

Date Collected: 10/26/22 16:30

Matrix: Solid

Date Received: 10/27/22 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	38087	10/28/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38378	11/01/22 14:57	CH	EET MID

Client Sample ID: CS-45 (6')

Lab Sample ID: 880-20849-8

Date Collected: 10/26/22 16:35

Matrix: Solid

Date Received: 10/27/22 10:31

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38424	11/01/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			38282	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 06:10	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	38087	10/28/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38378	11/01/22 15:02	CH	EET MID

Client Sample ID: CS-46 (6')

Lab Sample ID: 880-20849-9

Date Collected: 10/26/22 16:40

Matrix: Solid

Date Received: 10/27/22 10:31

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 14:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38424	11/01/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			38282	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 06:31	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	38087	10/28/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38378	11/01/22 15:07	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: Warren State #1

Job ID: 880-20849-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20849-1	SW-3 (6')	Solid	10/26/22 16:00	10/27/22 10:31
880-20849-2	SW-4 (6')	Solid	10/26/22 16:05	10/27/22 10:31
880-20849-3	SW-5 (6')	Solid	10/26/22 16:10	10/27/22 10:31
880-20849-4	SW-6 (6')	Solid	10/26/22 16:15	10/27/22 10:31
880-20849-5	SW-8 (6')	Solid	10/26/22 16:20	10/27/22 10:31
880-20849-6	SW-9 (6')	Solid	10/26/22 16:25	10/27/22 10:31
880-20849-7	SW-10 (6')	Solid	10/26/22 16:30	10/27/22 10:31
880-20849-8	CS-45 (6')	Solid	10/26/22 16:35	10/27/22 10:31
880-20849-9	CS-46 (6')	Solid	10/26/22 16:40	10/27/22 10:31

- 1
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- 13
- 14

Chain of Custody

Work Order No: 20849

Page 1 of 1

Project Manager:		Clinton Merritt		Bill to (if different):		Melodie Sanjari	
Company Name:		Carmona Resources		Company Name:		Marathon Oil Corporation	
Address:		310 W Wall St Ste 415		Address:		990 Town and Country Blvd	
City, State ZIP:		Midland TX 79701		City, State ZIP:		Houston TX 77024	
Phone:				Email:		msanjari@marathonoil.com	
Project Name: Warren State #1				Turn Around		Pres. Code	
Project Number: 1139				☒ Routine ☐ Rush			
Project Location: Lea County New Mexico				Due Date: 5 Day TOT			
Sampler's Name: CCM							
PO #:							
SAMPLE RECEIPT							
Received In tact:		Temp Blank: Yes ☒ No ☐		Thermometer ID: Yes ☒ No ☐		Well Ice: Yes ☒ No ☐	
Cooler Custody Seals:		Yes ☒ No ☐		Correction Factor: Yes ☒ No ☐		Parameters	
Sample Custody Seals:		Yes ☒ No ☐		Temperature Reading: Yes ☒ No ☐		BTX 8021B	
Total Containers:		Yes ☒ No ☐		Corrected Temperature: Yes ☒ No ☐		TPH 8015M (GRO + DRO + MRO)	
						Chloride 300.0	
Sample Identification:		Date		Time		Soil	
SW-3 (6')		10/26/2022		16 00		X	
SW-4 (6')		10/26/2022		16 05		X	
SW-5 (6')		10/26/2022		16 10		X	
SW-6 (6')		10/26/2022		16 15		X	
SW-8 (6')		10/26/2022		16 20		X	
SW-9 (6')		10/26/2022		16 25		X	
SW-10 (6')		10/26/2022		16 30		X	
CS-45 (6')		10/26/2022		16 35		X	
CS-46 (6')		10/26/2022		16 40		X	
Comments:							
Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
		10/27/22 1031					

880-20849 Chain of Custody

Sample Comments

402 yv

Preservative Codes

None NO DI Water H₂O

Cool Cool MeOH Me

HCL HC HNO₃ HN

H₂SO₄ H₂ NaOH Na

H₃PO₄ HP

NaHSO₄ NABIS

Na₂S₂O₃ NaSO₃

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Work Order Comments

Program: UST/ST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADAPT ☐ Other

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-20849-1
SDG Number: Lea County, New Mexico

Login Number: 20849

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 415
Midland Texas 79701

Generated 11/22/2022 4:17:57 PM

JOB DESCRIPTION

Warren State #1
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-21716-1

Client: Carmona Resources
Project/Site: Warren State #1

Laboratory Job ID: 880-21716-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Job ID: 880-21716-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21716-1

Receipt

The samples were received on 11/17/2022 10:27 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 -5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-11 (4') (880-21716-1), SW-12 (4') (880-21716-2), SW-13 (4') (880-21716-3), CS-47 (4') (880-21716-4), CS-48 (4') (880-21716-5), CS-49 (4') (880-21716-6), CS-50 (4') (880-21716-7), CS-51 (4') (880-21716-8), CS-52 (4') (880-21716-9), CS-53 (4') (880-21716-10), CS-54 (4') (880-21716-11), CS-55 (4') (880-21716-12) and CS-56 (4') (880-21716-13).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-39780 and analytical batch 880-39786 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-12 (4') (880-21716-2). 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: CS-47 (4') (880-21716-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-39791 and analytical batch 880-39800 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: LCSD biased high. Since only an acceptable LCS is required per the method, the data has been qualified and reported. (LCSD 880-39791/2-A)

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 matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-39814 and analytical batch 880-39762 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 880-39793 and 880-39793 and analytical batch 880-39855 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: CS-47 (4') (880-21716-4), CS-48 (4') (880-21716-5), CS-49 (4') (880-21716-6), CS-50 (4') (880-21716-7), CS-51 (4') (880-21716-8), CS-52 (4') (880-21716-9), CS-53 (4') (880-21716-10), CS-54 (4') (880-21716-11), CS-55 (4') (880-21716-12), CS-56 (4') (880-21716-13), (880-21716-A-4-C MS) and (880-21716-A-4-D 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: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: SW-11 (4')

Lab Sample ID: 880-21716-1

Date Collected: 11/16/22 16:00

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 10:35	11/17/22 21:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 21:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 21:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/17/22 10:35	11/17/22 21:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 21:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/17/22 10:35	11/17/22 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	11/17/22 10:35	11/17/22 21:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/17/22 10:35	11/17/22 21:11	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			11/18/22 11:31	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			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	50.0		mg/Kg		11/17/22 12:51	11/17/22 21:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 21:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	11/17/22 12:51	11/17/22 21:13	1
o-Terphenyl	110		70 - 130	11/17/22 12:51	11/17/22 21:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.0		5.03		mg/Kg			11/17/22 17:58	1

Client Sample ID: SW-12 (4')

Lab Sample ID: 880-21716-2

Date Collected: 11/16/22 16:05

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 10:35	11/17/22 21:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 21:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 21:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/17/22 10:35	11/17/22 21:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 21:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 10:35	11/17/22 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	11/17/22 10:35	11/17/22 21:31	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/17/22 10:35	11/17/22 21:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: SW-12 (4')

Lab Sample ID: 880-21716-2

Date Collected: 11/16/22 16:05

Matrix: Solid

Date Received: 11/17/22 10:27

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			11/18/22 11:31	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			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/17/22 22:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/17/22 22:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/17/22 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				11/17/22 12:51	11/17/22 22:18	1
o-Terphenyl	118		70 - 130				11/17/22 12:51	11/17/22 22:18	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.8		5.02		mg/Kg			11/17/22 18:15	1

Client Sample ID: SW-13 (4')

Lab Sample ID: 880-21716-3

Date Collected: 11/16/22 16:10

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 10:35	11/17/22 21:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 21:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 21:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/17/22 10:35	11/17/22 21:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 21:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 10:35	11/17/22 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				11/17/22 10:35	11/17/22 21:52	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/17/22 10:35	11/17/22 21:52	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			11/18/22 11:31	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			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/17/22 22:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/17/22 22:40	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: SW-13 (4')

Lab Sample ID: 880-21716-3

Date Collected: 11/16/22 16:10

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 12:51	11/17/22 22:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				11/17/22 12:51	11/17/22 22:40	1
o-Terphenyl	128		70 - 130				11/17/22 12:51	11/17/22 22:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.4		5.04		mg/Kg			11/17/22 18:21	1

Client Sample ID: CS-47 (4')

Lab Sample ID: 880-21716-4

Date Collected: 11/16/22 16:15

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 10:35	11/17/22 22:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 22:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 22:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/17/22 10:35	11/17/22 22:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 22:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 10:35	11/17/22 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130				11/17/22 10:35	11/17/22 22:12	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/17/22 10:35	11/17/22 22:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	389		50.0		mg/Kg			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 23:02	1
Diesel Range Organics (Over C10-C28)	389		50.0		mg/Kg		11/17/22 12:51	11/17/22 23:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				11/17/22 12:51	11/17/22 23:02	1
o-Terphenyl	112		70 - 130				11/17/22 12:51	11/17/22 23:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2180	F1	25.3		mg/Kg			11/18/22 07:23	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: CS-48 (4')

Lab Sample ID: 880-21716-5

Date Collected: 11/16/22 16:20

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 10:35	11/17/22 22:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 10:35	11/17/22 22:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 10:35	11/17/22 22:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/17/22 10:35	11/17/22 22:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 10:35	11/17/22 22:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 10:35	11/17/22 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/17/22 10:35	11/17/22 22:32	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/17/22 10:35	11/17/22 22:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 11:31	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			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 23:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 23:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	11/17/22 12:51	11/17/22 23:24	1
o-Terphenyl	113		70 - 130	11/17/22 12:51	11/17/22 23:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		4.96		mg/Kg			11/18/22 07:40	1

Client Sample ID: CS-49 (4')

Lab Sample ID: 880-21716-6

Date Collected: 11/16/22 16:25

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 10:35	11/17/22 22:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 22:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 22:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/17/22 10:35	11/17/22 22:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 22:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 10:35	11/17/22 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	11/17/22 10:35	11/17/22 22:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/17/22 10:35	11/17/22 22:53	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: CS-49 (4')

Lab Sample ID: 880-21716-6

Date Collected: 11/16/22 16:25

Matrix: Solid

Date Received: 11/17/22 10:27

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			11/18/22 11:31	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			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 23:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 23:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				11/17/22 12:51	11/17/22 23:45	1
o-Terphenyl	107		70 - 130				11/17/22 12:51	11/17/22 23:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		4.99		mg/Kg			11/18/22 07:46	1

Client Sample ID: CS-50 (4')

Lab Sample ID: 880-21716-7

Date Collected: 11/16/22 16:30

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 10:35	11/17/22 23:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 23:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 23:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/17/22 10:35	11/17/22 23:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 10:35	11/17/22 23:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 10:35	11/17/22 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130				11/17/22 10:35	11/17/22 23:13	1
1,4-Difluorobenzene (Surr)	105		70 - 130				11/17/22 10:35	11/17/22 23:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.2		49.9		mg/Kg			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/18/22 00:07	1
Diesel Range Organics (Over C10-C28)	51.2		49.9		mg/Kg		11/17/22 12:51	11/18/22 00:07	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: CS-50 (4')

Lab Sample ID: 880-21716-7

Date Collected: 11/16/22 16:30

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 12:51	11/18/22 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				11/17/22 12:51	11/18/22 00:07	1
o-Terphenyl	113		70 - 130				11/17/22 12:51	11/18/22 00:07	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4390		50.1		mg/Kg			11/18/22 07:51	10

Client Sample ID: CS-51 (4')

Lab Sample ID: 880-21716-8

Date Collected: 11/16/22 16:35

Matrix: Solid

Date Received: 11/17/22 10:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1 F2	0.00201		mg/Kg		11/17/22 11:50	11/17/22 16:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/17/22 16:02	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		11/17/22 11:50	11/17/22 16:02	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		11/17/22 11:50	11/17/22 16:02	1
o-Xylene	<0.00201	U ** F1	0.00201		mg/Kg		11/17/22 11:50	11/17/22 16:02	1
Xylenes, Total	<0.00402	U ** F1	0.00402		mg/Kg		11/17/22 11:50	11/17/22 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/17/22 11:50	11/17/22 16:02	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/17/22 11:50	11/17/22 16:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	233		50.0		mg/Kg			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/18/22 00:29	1
Diesel Range Organics (Over C10-C28)	233		50.0		mg/Kg		11/17/22 12:51	11/18/22 00:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/18/22 00:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				11/17/22 12:51	11/18/22 00:29	1
o-Terphenyl	116		70 - 130				11/17/22 12:51	11/18/22 00:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		25.2		mg/Kg			11/18/22 07:57	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: CS-52 (4')

Lab Sample ID: 880-21716-9

Date Collected: 11/16/22 16:40

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 11:50	11/17/22 16:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/17/22 16:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/17/22 16:28	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		11/17/22 11:50	11/17/22 16:28	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		11/17/22 11:50	11/17/22 16:28	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		11/17/22 11:50	11/17/22 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	11/17/22 11:50	11/17/22 16:28	1
1,4-Difluorobenzene (Surr)	89		70 - 130	11/17/22 11:50	11/17/22 16:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 17:04	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			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/18/22 00:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/18/22 00:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/18/22 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	11/17/22 12:51	11/18/22 00:51	1
o-Terphenyl	115		70 - 130	11/17/22 12:51	11/18/22 00:51	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.1		4.96		mg/Kg			11/18/22 08:14	1

Client Sample ID: CS-53 (4')

Lab Sample ID: 880-21716-10

Date Collected: 11/16/22 16:45

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 11:50	11/17/22 16:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/17/22 16:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/17/22 16:53	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		11/17/22 11:50	11/17/22 16:53	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		11/17/22 11:50	11/17/22 16:53	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		11/17/22 11:50	11/17/22 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/17/22 11:50	11/17/22 16:53	1
1,4-Difluorobenzene (Surr)	84		70 - 130	11/17/22 11:50	11/17/22 16:53	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: CS-53 (4')

Lab Sample ID: 880-21716-10

Date Collected: 11/16/22 16:45

Matrix: Solid

Date Received: 11/17/22 10:27

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			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.0		49.9		mg/Kg			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/18/22 01:13	1
Diesel Range Organics (Over C10-C28)	59.0		49.9		mg/Kg		11/17/22 12:51	11/18/22 01:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/18/22 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				11/17/22 12:51	11/18/22 01:13	1
o-Terphenyl	121		70 - 130				11/17/22 12:51	11/18/22 01:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4430		49.6		mg/Kg			11/18/22 08:20	10

Client Sample ID: CS-54 (4')

Lab Sample ID: 880-21716-11

Date Collected: 11/16/22 16:00

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 11:50	11/17/22 17:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 17:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 17:19	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		11/17/22 11:50	11/17/22 17:19	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		11/17/22 11:50	11/17/22 17:19	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		11/17/22 11:50	11/17/22 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/17/22 11:50	11/17/22 17:19	1
1,4-Difluorobenzene (Surr)	79		70 - 130				11/17/22 11:50	11/17/22 17:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/22/22 17:04	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			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/18/22 01:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/18/22 01:57	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: CS-54 (4')

Lab Sample ID: 880-21716-11

Date Collected: 11/16/22 16:00

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 12:51	11/18/22 01:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				11/17/22 12:51	11/18/22 01:57	1
o-Terphenyl	106		70 - 130				11/17/22 12:51	11/18/22 01:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		5.00		mg/Kg			11/18/22 08:25	1

Client Sample ID: CS-55 (4')

Lab Sample ID: 880-21716-12

Date Collected: 11/16/22 16:05

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 11:50	11/17/22 17:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/17/22 17:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/17/22 17:45	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		11/17/22 11:50	11/17/22 17:45	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		11/17/22 11:50	11/17/22 17:45	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		11/17/22 11:50	11/17/22 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/17/22 11:50	11/17/22 17:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130				11/17/22 11:50	11/17/22 17:45	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			11/22/22 17:04	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			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/18/22 02:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/18/22 02:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:51	11/18/22 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/17/22 12:51	11/18/22 02:19	1
o-Terphenyl	105		70 - 130				11/17/22 12:51	11/18/22 02:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		4.97		mg/Kg			11/18/22 08:31	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: CS-56 (4')

Lab Sample ID: 880-21716-13

Date Collected: 11/16/22 16:10

Matrix: Solid

Date Received: 11/17/22 10:27

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		11/17/22 11:50	11/17/22 18:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:50	11/17/22 18:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:50	11/17/22 18:10	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404		mg/Kg		11/17/22 11:50	11/17/22 18:10	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		11/17/22 11:50	11/17/22 18:10	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		11/17/22 11:50	11/17/22 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/17/22 11:50	11/17/22 18:10	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/17/22 11:50	11/17/22 18:10	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			11/22/22 17:04	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			11/18/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/18/22 02:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/18/22 02:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/18/22 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	11/17/22 12:51	11/18/22 02:40	1
o-Terphenyl	109		70 - 130	11/17/22 12:51	11/18/22 02:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		5.03		mg/Kg			11/18/22 08:37	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-21715-A-1-A MS	Matrix Spike	70	96
880-21715-A-1-B MSD	Matrix Spike Duplicate	102	105
880-21716-1	SW-11 (4')	74	98
880-21716-2	SW-12 (4')	62 S1-	106
880-21716-3	SW-13 (4')	95	109
880-21716-4	CS-47 (4')	64 S1-	109
880-21716-5	CS-48 (4')	98	102
880-21716-6	CS-49 (4')	93	105
880-21716-7	CS-50 (4')	70	105
880-21716-8	CS-51 (4')	121	97
880-21716-8 MS	CS-51 (4')	94	78
880-21716-8 MSD	CS-51 (4')	123	92
880-21716-9	CS-52 (4')	127	89
880-21716-10	CS-53 (4')	116	84
880-21716-11	CS-54 (4')	99	79
880-21716-12	CS-55 (4')	112	83
880-21716-13	CS-56 (4')	120	93
LCS 880-39780/1-A	Lab Control Sample	92	105
LCS 880-39791/1-A	Lab Control Sample	93	84
LCSD 880-39780/2-A	Lab Control Sample Dup	102	106
LCSD 880-39791/2-A	Lab Control Sample Dup	129	100
MB 880-39780/5-A	Method Blank	81	100
MB 880-39791/5-A	Method Blank	75	84
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-21716-1	SW-11 (4')	109	110
880-21716-1 MS	SW-11 (4')	105	96
880-21716-1 MSD	SW-11 (4')	92	86
880-21716-2	SW-12 (4')	121	118
880-21716-3	SW-13 (4')	127	128
880-21716-4	CS-47 (4')	118	112
880-21716-5	CS-48 (4')	116	113
880-21716-6	CS-49 (4')	107	107
880-21716-7	CS-50 (4')	112	113
880-21716-8	CS-51 (4')	119	116
880-21716-9	CS-52 (4')	116	115
880-21716-10	CS-53 (4')	120	121
880-21716-11	CS-54 (4')	107	106
880-21716-12	CS-55 (4')	104	105
880-21716-13	CS-56 (4')	111	109
LCS 880-39814/2-A	Lab Control Sample	111	107

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Surrogate Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	1CO1	OTPH1		
		(70-130)	(70-130)		
LCSD 880-39814/3-A	Lab Control Sample Dup	98	105		
MB 880-39814/1-A	Method Blank	95	99		
Surrogate Legend					
1CO = 1-Chlorooctane					
OTPH = o-Terphenyl					

QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39780/5-A

Matrix: Solid

Analysis Batch: 39786

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 14:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 14:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 14:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/17/22 10:35	11/17/22 14:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 14:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 10:35	11/17/22 14:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	11/17/22 10:35	11/17/22 14:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/17/22 10:35	11/17/22 14:48	1

Lab Sample ID: LCS 880-39780/1-A

Matrix: Solid

Analysis Batch: 39786

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09530		mg/Kg		95	70 - 130
Toluene	0.100	0.1017		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09954		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1807		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08832		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-39780/2-A

Matrix: Solid

Analysis Batch: 39786

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39780

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1059		mg/Kg		106	70 - 130	11	35
Toluene	0.100	0.1131		mg/Kg		113	70 - 130	11	35
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2031		mg/Kg		102	70 - 130	12	35
o-Xylene	0.100	0.09949		mg/Kg		99	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-21715-A-1-A MS

Matrix: Solid

Analysis Batch: 39786

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.07046		mg/Kg		71	70 - 130
Toluene	0.00227	F2 F1	0.0996	0.06554	F1	mg/Kg		64	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-21715-A-1-A MS

Matrix: Solid

Analysis Batch: 39786

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.06156	F1	mg/Kg		62	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.1006	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0996	0.04864	F1	mg/Kg		48	70 - 130

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

Lab Sample ID: 880-21715-A-1-B MSD

Matrix: Solid

Analysis Batch: 39786

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 39780

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	0.08994		mg/Kg		91	70 - 130	24	35
Toluene	0.00227	F2 F1	0.0990	0.1006	F2	mg/Kg		99	70 - 130	42	35
Ethylbenzene	<0.00199	U F2 F1	0.0990	0.09220	F2	mg/Kg		93	70 - 130	40	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.1668	F2	mg/Kg		84	70 - 130	50	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.08174	F2	mg/Kg		82	70 - 130	51	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-39791/5-A

Matrix: Solid

Analysis Batch: 39800

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 15:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 15:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 15:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/17/22 11:50	11/17/22 15:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 15:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 11:50	11/17/22 15:36	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	11/17/22 11:50	11/17/22 15:36	1
1,4-Difluorobenzene (Surr)	84		70 - 130	11/17/22 11:50	11/17/22 15:36	1

Lab Sample ID: LCS 880-39791/1-A

Matrix: Solid

Analysis Batch: 39800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08587		mg/Kg		86	70 - 130
Toluene	0.100	0.09423		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09375		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.2050		mg/Kg		103	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-39791/1-A

Matrix: Solid

Analysis Batch: 39800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09953		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-39791/2-A

Matrix: Solid

Analysis Batch: 39800

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39791

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1161		mg/Kg		116	70 - 130	30	35
Toluene	0.100	0.1140		mg/Kg		114	70 - 130	19	35
Ethylbenzene	0.100	0.1201		mg/Kg		120	70 - 130	25	35
m-Xylene & p-Xylene	0.200	0.2670	*+	mg/Kg		134	70 - 130	26	35
o-Xylene	0.100	0.1373	*+	mg/Kg		137	70 - 130	32	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-21716-8 MS

Matrix: Solid

Analysis Batch: 39800

Client Sample ID: CS-51 (4')

Prep Type: Total/NA

Prep Batch: 39791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.0996	0.06782	F1	mg/Kg		68	70 - 130
Toluene	<0.00201	U	0.0996	0.07434		mg/Kg		75	70 - 130
Ethylbenzene	<0.00201	U F1	0.0996	0.06596	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00402	U *+	0.199	0.1403		mg/Kg		70	70 - 130
o-Xylene	<0.00201	U *+ F1	0.0996	0.06613	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: 880-21716-8 MSD

Matrix: Solid

Analysis Batch: 39800

Client Sample ID: CS-51 (4')

Prep Type: Total/NA

Prep Batch: 39791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0998	0.09725	F2	mg/Kg		97	70 - 130	36	35
Toluene	<0.00201	U	0.0998	0.1014		mg/Kg		102	70 - 130	31	35
Ethylbenzene	<0.00201	U F1	0.0998	0.08657		mg/Kg		87	70 - 130	27	35
m-Xylene & p-Xylene	<0.00402	U *+	0.200	0.1904		mg/Kg		95	70 - 130	30	35
o-Xylene	<0.00201	U *+ F1	0.0998	0.09254		mg/Kg		93	70 - 130	33	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-21716-8 MSD

Matrix: Solid

Analysis Batch: 39800

Client Sample ID: CS-51 (4')

Prep Type: Total/NA

Prep Batch: 39791

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-39814/1-A

Matrix: Solid

Analysis Batch: 39762

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39814

	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		11/17/22 12:51	11/17/22 20:09	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 20:09	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:51	11/17/22 20:09	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	95		70 - 130				11/17/22 12:51	11/17/22 20:09	1	
o-Terphenyl	99		70 - 130				11/17/22 12:51	11/17/22 20:09	1	

Lab Sample ID: LCS 880-39814/2-A

Matrix: Solid

Analysis Batch: 39762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39814

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	845.4		mg/Kg		85	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	952.4		mg/Kg		95	70 - 130			
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	111		70 - 130							
o-Terphenyl	107		70 - 130							

Lab Sample ID: LCSD 880-39814/3-A

Matrix: Solid

Analysis Batch: 39762

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39814

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	814.8		mg/Kg		81	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)	1000	930.8		mg/Kg		93	70 - 130	2	20	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	98		70 - 130							
o-Terphenyl	105		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-21716-1 MS

Matrix: Solid

Analysis Batch: 39762

Client Sample ID: SW-11 (4')

Prep Type: Total/NA

Prep Batch: 39814

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	999	1034		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1164		mg/Kg		116	70 - 130		

Lab Sample ID: 880-21716-1 MSD

Matrix: Solid

Analysis Batch: 39762

Client Sample ID: SW-11 (4')

Prep Type: Total/NA

Prep Batch: 39814

	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	997	825.8	F2	mg/Kg		81	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1050		mg/Kg		105	70 - 130	10	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	86		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39785/1-A

Matrix: Solid

Analysis Batch: 39821

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			11/17/22 16:22	1

Lab Sample ID: LCS 880-39785/2-A

Matrix: Solid

Analysis Batch: 39821

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.3		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-39785/3-A

Matrix: Solid

Analysis Batch: 39821

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.9		mg/Kg		101	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-21716-1 MS

Matrix: Solid

Analysis Batch: 39821

Client Sample ID: SW-11 (4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	36.0		252	297.4		mg/Kg		104	90 - 110

Lab Sample ID: 880-21716-1 MSD

Matrix: Solid

Analysis Batch: 39821

Client Sample ID: SW-11 (4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	36.0		252	302.6		mg/Kg		106	90 - 110	2	20

Lab Sample ID: MB 880-39793/1-A

Matrix: Solid

Analysis Batch: 39855

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			11/18/22 07:06	1

Lab Sample ID: LCS 880-39793/2-A

Matrix: Solid

Analysis Batch: 39855

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.2		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-39793/3-A

Matrix: Solid

Analysis Batch: 39855

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	0	20

Lab Sample ID: 880-21716-4 MS

Matrix: Solid

Analysis Batch: 39855

Client Sample ID: CS-47 (4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2180	F1	1260	3589	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-21716-4 MSD

Matrix: Solid

Analysis Batch: 39855

Client Sample ID: CS-47 (4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2180	F1	1260	3602	F1	mg/Kg		113	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 39780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-1	SW-11 (4')	Total/NA	Solid	5035	
880-21716-2	SW-12 (4')	Total/NA	Solid	5035	
880-21716-3	SW-13 (4')	Total/NA	Solid	5035	
880-21716-4	CS-47 (4')	Total/NA	Solid	5035	
880-21716-5	CS-48 (4')	Total/NA	Solid	5035	
880-21716-6	CS-49 (4')	Total/NA	Solid	5035	
880-21716-7	CS-50 (4')	Total/NA	Solid	5035	
MB 880-39780/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39780/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39780/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21715-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-21715-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 39786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-1	SW-11 (4')	Total/NA	Solid	8021B	39780
880-21716-2	SW-12 (4')	Total/NA	Solid	8021B	39780
880-21716-3	SW-13 (4')	Total/NA	Solid	8021B	39780
880-21716-4	CS-47 (4')	Total/NA	Solid	8021B	39780
880-21716-5	CS-48 (4')	Total/NA	Solid	8021B	39780
880-21716-6	CS-49 (4')	Total/NA	Solid	8021B	39780
880-21716-7	CS-50 (4')	Total/NA	Solid	8021B	39780
MB 880-39780/5-A	Method Blank	Total/NA	Solid	8021B	39780
LCS 880-39780/1-A	Lab Control Sample	Total/NA	Solid	8021B	39780
LCSD 880-39780/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39780
880-21715-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	39780
880-21715-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39780

Prep Batch: 39791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-8	CS-51 (4')	Total/NA	Solid	5035	
880-21716-9	CS-52 (4')	Total/NA	Solid	5035	
880-21716-10	CS-53 (4')	Total/NA	Solid	5035	
880-21716-11	CS-54 (4')	Total/NA	Solid	5035	
880-21716-12	CS-55 (4')	Total/NA	Solid	5035	
880-21716-13	CS-56 (4')	Total/NA	Solid	5035	
MB 880-39791/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39791/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39791/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21716-8 MS	CS-51 (4')	Total/NA	Solid	5035	
880-21716-8 MSD	CS-51 (4')	Total/NA	Solid	5035	

Analysis Batch: 39800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-8	CS-51 (4')	Total/NA	Solid	8021B	39791
880-21716-9	CS-52 (4')	Total/NA	Solid	8021B	39791
880-21716-10	CS-53 (4')	Total/NA	Solid	8021B	39791
880-21716-11	CS-54 (4')	Total/NA	Solid	8021B	39791
880-21716-12	CS-55 (4')	Total/NA	Solid	8021B	39791
880-21716-13	CS-56 (4')	Total/NA	Solid	8021B	39791
MB 880-39791/5-A	Method Blank	Total/NA	Solid	8021B	39791

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QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 39800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-39791/1-A	Lab Control Sample	Total/NA	Solid	8021B	39791
LCSD 880-39791/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39791
880-21716-8 MS	CS-51 (4')	Total/NA	Solid	8021B	39791
880-21716-8 MSD	CS-51 (4')	Total/NA	Solid	8021B	39791

Analysis Batch: 39913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-1	SW-11 (4')	Total/NA	Solid	Total BTEX	
880-21716-2	SW-12 (4')	Total/NA	Solid	Total BTEX	
880-21716-3	SW-13 (4')	Total/NA	Solid	Total BTEX	
880-21716-4	CS-47 (4')	Total/NA	Solid	Total BTEX	
880-21716-5	CS-48 (4')	Total/NA	Solid	Total BTEX	
880-21716-6	CS-49 (4')	Total/NA	Solid	Total BTEX	
880-21716-7	CS-50 (4')	Total/NA	Solid	Total BTEX	
880-21716-8	CS-51 (4')	Total/NA	Solid	Total BTEX	
880-21716-9	CS-52 (4')	Total/NA	Solid	Total BTEX	
880-21716-10	CS-53 (4')	Total/NA	Solid	Total BTEX	
880-21716-11	CS-54 (4')	Total/NA	Solid	Total BTEX	
880-21716-12	CS-55 (4')	Total/NA	Solid	Total BTEX	
880-21716-13	CS-56 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 39762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-1	SW-11 (4')	Total/NA	Solid	8015B NM	39814
880-21716-2	SW-12 (4')	Total/NA	Solid	8015B NM	39814
880-21716-3	SW-13 (4')	Total/NA	Solid	8015B NM	39814
880-21716-4	CS-47 (4')	Total/NA	Solid	8015B NM	39814
880-21716-5	CS-48 (4')	Total/NA	Solid	8015B NM	39814
880-21716-6	CS-49 (4')	Total/NA	Solid	8015B NM	39814
880-21716-7	CS-50 (4')	Total/NA	Solid	8015B NM	39814
880-21716-8	CS-51 (4')	Total/NA	Solid	8015B NM	39814
880-21716-9	CS-52 (4')	Total/NA	Solid	8015B NM	39814
880-21716-10	CS-53 (4')	Total/NA	Solid	8015B NM	39814
880-21716-11	CS-54 (4')	Total/NA	Solid	8015B NM	39814
880-21716-12	CS-55 (4')	Total/NA	Solid	8015B NM	39814
880-21716-13	CS-56 (4')	Total/NA	Solid	8015B NM	39814
MB 880-39814/1-A	Method Blank	Total/NA	Solid	8015B NM	39814
LCS 880-39814/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39814
LCSD 880-39814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39814
880-21716-1 MS	SW-11 (4')	Total/NA	Solid	8015B NM	39814
880-21716-1 MSD	SW-11 (4')	Total/NA	Solid	8015B NM	39814

Prep Batch: 39814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-1	SW-11 (4')	Total/NA	Solid	8015NM Prep	
880-21716-2	SW-12 (4')	Total/NA	Solid	8015NM Prep	
880-21716-3	SW-13 (4')	Total/NA	Solid	8015NM Prep	
880-21716-4	CS-47 (4')	Total/NA	Solid	8015NM Prep	
880-21716-5	CS-48 (4')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 39814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-6	CS-49 (4')	Total/NA	Solid	8015NM Prep	
880-21716-7	CS-50 (4')	Total/NA	Solid	8015NM Prep	
880-21716-8	CS-51 (4')	Total/NA	Solid	8015NM Prep	
880-21716-9	CS-52 (4')	Total/NA	Solid	8015NM Prep	
880-21716-10	CS-53 (4')	Total/NA	Solid	8015NM Prep	
880-21716-11	CS-54 (4')	Total/NA	Solid	8015NM Prep	
880-21716-12	CS-55 (4')	Total/NA	Solid	8015NM Prep	
880-21716-13	CS-56 (4')	Total/NA	Solid	8015NM Prep	
MB 880-39814/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39814/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21716-1 MS	SW-11 (4')	Total/NA	Solid	8015NM Prep	
880-21716-1 MSD	SW-11 (4')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-1	SW-11 (4')	Total/NA	Solid	8015 NM	
880-21716-2	SW-12 (4')	Total/NA	Solid	8015 NM	
880-21716-3	SW-13 (4')	Total/NA	Solid	8015 NM	
880-21716-4	CS-47 (4')	Total/NA	Solid	8015 NM	
880-21716-5	CS-48 (4')	Total/NA	Solid	8015 NM	
880-21716-6	CS-49 (4')	Total/NA	Solid	8015 NM	
880-21716-7	CS-50 (4')	Total/NA	Solid	8015 NM	
880-21716-8	CS-51 (4')	Total/NA	Solid	8015 NM	
880-21716-9	CS-52 (4')	Total/NA	Solid	8015 NM	
880-21716-10	CS-53 (4')	Total/NA	Solid	8015 NM	
880-21716-11	CS-54 (4')	Total/NA	Solid	8015 NM	
880-21716-12	CS-55 (4')	Total/NA	Solid	8015 NM	
880-21716-13	CS-56 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-1	SW-11 (4')	Soluble	Solid	DI Leach	
880-21716-2	SW-12 (4')	Soluble	Solid	DI Leach	
880-21716-3	SW-13 (4')	Soluble	Solid	DI Leach	
MB 880-39785/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39785/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39785/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21716-1 MS	SW-11 (4')	Soluble	Solid	DI Leach	
880-21716-1 MSD	SW-11 (4')	Soluble	Solid	DI Leach	

Leach Batch: 39793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-4	CS-47 (4')	Soluble	Solid	DI Leach	
880-21716-5	CS-48 (4')	Soluble	Solid	DI Leach	
880-21716-6	CS-49 (4')	Soluble	Solid	DI Leach	
880-21716-7	CS-50 (4')	Soluble	Solid	DI Leach	
880-21716-8	CS-51 (4')	Soluble	Solid	DI Leach	
880-21716-9	CS-52 (4')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 39793 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-10	CS-53 (4')	Soluble	Solid	DI Leach	
880-21716-11	CS-54 (4')	Soluble	Solid	DI Leach	
880-21716-12	CS-55 (4')	Soluble	Solid	DI Leach	
880-21716-13	CS-56 (4')	Soluble	Solid	DI Leach	
MB 880-39793/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39793/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39793/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21716-4 MS	CS-47 (4')	Soluble	Solid	DI Leach	
880-21716-4 MSD	CS-47 (4')	Soluble	Solid	DI Leach	

Analysis Batch: 39821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-1	SW-11 (4')	Soluble	Solid	300.0	39785
880-21716-2	SW-12 (4')	Soluble	Solid	300.0	39785
880-21716-3	SW-13 (4')	Soluble	Solid	300.0	39785
MB 880-39785/1-A	Method Blank	Soluble	Solid	300.0	39785
LCS 880-39785/2-A	Lab Control Sample	Soluble	Solid	300.0	39785
LCSD 880-39785/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39785
880-21716-1 MS	SW-11 (4')	Soluble	Solid	300.0	39785
880-21716-1 MSD	SW-11 (4')	Soluble	Solid	300.0	39785

Analysis Batch: 39855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21716-4	CS-47 (4')	Soluble	Solid	300.0	39793
880-21716-5	CS-48 (4')	Soluble	Solid	300.0	39793
880-21716-6	CS-49 (4')	Soluble	Solid	300.0	39793
880-21716-7	CS-50 (4')	Soluble	Solid	300.0	39793
880-21716-8	CS-51 (4')	Soluble	Solid	300.0	39793
880-21716-9	CS-52 (4')	Soluble	Solid	300.0	39793
880-21716-10	CS-53 (4')	Soluble	Solid	300.0	39793
880-21716-11	CS-54 (4')	Soluble	Solid	300.0	39793
880-21716-12	CS-55 (4')	Soluble	Solid	300.0	39793
880-21716-13	CS-56 (4')	Soluble	Solid	300.0	39793
MB 880-39793/1-A	Method Blank	Soluble	Solid	300.0	39793
LCS 880-39793/2-A	Lab Control Sample	Soluble	Solid	300.0	39793
LCSD 880-39793/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39793
880-21716-4 MS	CS-47 (4')	Soluble	Solid	300.0	39793
880-21716-4 MSD	CS-47 (4')	Soluble	Solid	300.0	39793

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: SW-11 (4')

Lab Sample ID: 880-21716-1

Date Collected: 11/16/22 16:00

Matrix: Solid

Date Received: 11/17/22 10:27

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	39780	11/17/22 10:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/17/22 21:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 21:13	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39785	11/17/22 12:00	KS	EET MID
Soluble	Analysis	300.0		1			39821	11/17/22 17:58	SMC	EET MID

Client Sample ID: SW-12 (4')

Lab Sample ID: 880-21716-2

Date Collected: 11/16/22 16:05

Matrix: Solid

Date Received: 11/17/22 10:27

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	39780	11/17/22 10:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/17/22 21:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 22:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39785	11/17/22 12:00	KS	EET MID
Soluble	Analysis	300.0		1			39821	11/17/22 18:15	SMC	EET MID

Client Sample ID: SW-13 (4')

Lab Sample ID: 880-21716-3

Date Collected: 11/16/22 16:10

Matrix: Solid

Date Received: 11/17/22 10:27

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	39780	11/17/22 10:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/17/22 21:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 22:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39785	11/17/22 12:00	KS	EET MID
Soluble	Analysis	300.0		1			39821	11/17/22 18:21	SMC	EET MID

Client Sample ID: CS-47 (4')

Lab Sample ID: 880-21716-4

Date Collected: 11/16/22 16:15

Matrix: Solid

Date Received: 11/17/22 10:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	39780	11/17/22 10:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/17/22 22:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/18/22 11:31	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: CS-47 (4')

Lab Sample ID: 880-21716-4

Date Collected: 11/16/22 16:15

Matrix: Solid

Date Received: 11/17/22 10:27

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			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 23:02	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		5			39855	11/18/22 07:23	SMC	EET MID

Client Sample ID: CS-48 (4')

Lab Sample ID: 880-21716-5

Date Collected: 11/16/22 16:20

Matrix: Solid

Date Received: 11/17/22 10:27

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	39780	11/17/22 10:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/17/22 22:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 23:24	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 07:40	SMC	EET MID

Client Sample ID: CS-49 (4')

Lab Sample ID: 880-21716-6

Date Collected: 11/16/22 16:25

Matrix: Solid

Date Received: 11/17/22 10:27

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	39780	11/17/22 10:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/17/22 22:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 23:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 07:46	SMC	EET MID

Client Sample ID: CS-50 (4')

Lab Sample ID: 880-21716-7

Date Collected: 11/16/22 16:30

Matrix: Solid

Date Received: 11/17/22 10:27

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	39780	11/17/22 10:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/17/22 23:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/18/22 00:07	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: CS-50 (4')

Lab Sample ID: 880-21716-7

Date Collected: 11/16/22 16:30

Matrix: Solid

Date Received: 11/17/22 10:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		10			39855	11/18/22 07:51	SMC	EET MID

Client Sample ID: CS-51 (4')

Lab Sample ID: 880-21716-8

Date Collected: 11/16/22 16:35

Matrix: Solid

Date Received: 11/17/22 10:27

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	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 16:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/18/22 00:29	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		5			39855	11/18/22 07:57	SMC	EET MID

Client Sample ID: CS-52 (4')

Lab Sample ID: 880-21716-9

Date Collected: 11/16/22 16:40

Matrix: Solid

Date Received: 11/17/22 10:27

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	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 16:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/18/22 00:51	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 08:14	SMC	EET MID

Client Sample ID: CS-53 (4')

Lab Sample ID: 880-21716-10

Date Collected: 11/16/22 16:45

Matrix: Solid

Date Received: 11/17/22 10:27

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	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 16:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/18/22 01:13	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		10			39855	11/18/22 08:20	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Client Sample ID: CS-54 (4')

Lab Sample ID: 880-21716-11

Date Collected: 11/16/22 16:00

Matrix: Solid

Date Received: 11/17/22 10:27

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	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 17:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/18/22 01:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 08:25	SMC	EET MID

Client Sample ID: CS-55 (4')

Lab Sample ID: 880-21716-12

Date Collected: 11/16/22 16:05

Matrix: Solid

Date Received: 11/17/22 10:27

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	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 17:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/18/22 02:19	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 08:31	SMC	EET MID

Client Sample ID: CS-56 (4')

Lab Sample ID: 880-21716-13

Date Collected: 11/16/22 16:10

Matrix: Solid

Date Received: 11/17/22 10:27

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	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 18:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39913	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			39905	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39814	11/17/22 12:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/18/22 02:40	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 08:37	SMC	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Carmona Resources
Project/Site: Warren State #1

Job ID: 880-21716-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21716-1	SW-11 (4')	Solid	11/16/22 16:00	11/17/22 10:27
880-21716-2	SW-12 (4')	Solid	11/16/22 16:05	11/17/22 10:27
880-21716-3	SW-13 (4')	Solid	11/16/22 16:10	11/17/22 10:27
880-21716-4	CS-47 (4')	Solid	11/16/22 16:15	11/17/22 10:27
880-21716-5	CS-48 (4')	Solid	11/16/22 16:20	11/17/22 10:27
880-21716-6	CS-49 (4')	Solid	11/16/22 16:25	11/17/22 10:27
880-21716-7	CS-50 (4')	Solid	11/16/22 16:30	11/17/22 10:27
880-21716-8	CS-51 (4')	Solid	11/16/22 16:35	11/17/22 10:27
880-21716-9	CS-52 (4')	Solid	11/16/22 16:40	11/17/22 10:27
880-21716-10	CS-53 (4')	Solid	11/16/22 16:45	11/17/22 10:27
880-21716-11	CS-54 (4')	Solid	11/16/22 16:00	11/17/22 10:27
880-21716-12	CS-55 (4')	Solid	11/16/22 16:05	11/17/22 10:27
880-21716-13	CS-56 (4')	Solid	11/16/22 16:10	11/17/22 10:27

Work Order No:

Page 1 of 2

Page 1 of 2

Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund

State of Project:

☐ Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV

☐ Deliverables. EDD ☐ ADaPT ☐ Other

Work Order Comments

Project Manager	Clinton Merritt			Bill to (if different)	Melodie Sanjari
Company Name	Carmona Resources			Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 415			Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701			City, State ZIP	Houston, TX 77024
Phone				Email	msanjari@marathonoil.com

Project Name		Warren State #1		Turn Around		ANALYSIS REQUEST										Preservative Codes									
Project Number		1139		☒ Routine ☒ Rush Due Date 24 HOUR												None NO DI Water H ₂ O									
Project Location		Lea County, New Mexico														Cool Cool MeOH Me									
Sampler's Name		CCM														HCL HC HNO ₃ HN									
PO #:																H ₂ SO ₄ H ₂ NaOH Na									
SAMPLE RECEIPT				Temp Blank.		Yes ☒ No ☒		Wet Ice		Yes ☒ No ☒															
Received Intact:				Yes ☒ No ☒		Thermometer ID																			
Cooler Custody Seals				Yes ☒ No ☒		Correction Factor																			
Sample Custody Seals				Yes ☒ No ☒		Temperature Reading																			
Total Containers				Yes ☒ No ☒		Corrected Temperature																			
Sample Identification				Date		Time		Soil		Water		Grabi/Comp		# of Cont											
SW-11 (4')				11/16/2022		16 00		X				Comp		1											
SW-12 (4')				11/16/2022		16 05		X				Comp		1											
SW-13 (4')				11/16/2022		16 10		X				Comp		1											
CS- 47 (4')				11/16/2022		16 15		X				Comp		1											
CS- 48 (4')				11/16/2022		16 20		X				Comp		1											
CS- 49 (4')				11/16/2022		16 25		X				Comp		1											
CS- 50 (4')				11/16/2022		16 30		X				Comp		1											
CS- 51 (4')				11/16/2022		16 35		X				Comp		1											
CS- 52 (4')				11/16/2022		16 40		X				Comp		1											
CS- 53 (4')				11/16/2022		16 45		X				Comp		1											

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>Tommy [Signature]</i>	11/17/22	<i>[Signature]</i>	12/01

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Work Order No:

Page 2 of 2

Page 2 of 2

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RCRA ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other ☐

Project Manager	Clinton Merritt			Bill to (if different)	Melodie Sanjari
Company Name	Carmona Resources			Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 415			Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701			City, State ZIP	Houston, TX 77024
Phone				Email	msanjari@marathonoil.com

[illegible]

Comments:

Comments	Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	<i>Pammy [Signature]</i>	11/17/22 1027	<i>[Signature]</i>	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-21716-1

SDG Number: Lea County, New Mexico

Login Number: 21716

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

Generated
11/22/2022 4:17:57 PM

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



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

November 22, 2022

CLINT MERRITT

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: WARREN STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 11/21/22 15:03.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 14 (20') (H225481-01)

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	11/21/2022	ND	2.01	101	2.00	7.59	
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34	
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43	
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34	
Total BTEX	<0.300	0.300	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.6 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 15 (20') (H225481-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	2.01	101	2.00	7.59		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	189	94.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	177	88.6	200	7.80	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 73.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.7 % 46.3-178

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 16 (20') (H225481-03)

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	11/21/2022	ND	2.01	101	2.00	7.59		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 17 (20') (H225481-04)

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	11/21/2022	ND	2.01	101	2.00	7.59		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 18 (20') (H225481-05)

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	11/21/2022	ND	2.01	101	2.00	7.59	
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34	
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43	
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34	
Total BTEx	<0.300	0.300	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 19 (20') (H225481-06)

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	11/21/2022	ND	2.01	101	2.00	7.59	
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34	
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43	
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34	
Total BTEx	<0.300	0.300	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.7 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 20 (20') (H225481-07)

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	11/21/2022	ND	2.01	101	2.00	7.59	
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34	
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43	
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34	
Total BTX	<0.300	0.300	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 81.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 21 (20') (H225481-08)

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	11/21/2022	ND	2.01	101	2.00	7.59		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.1 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 22 (20') (H225481-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	2.01	101	2.00	7.59		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.9 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 23 (20') (H225481-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	2.01	101	2.00	7.59		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.7 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 57 (20') (H225481-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	2.01	101	2.00	7.59		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.5 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 58 (20') (H225481-12)

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	11/21/2022	ND	2.01	101	2.00	7.59		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34		
Total BTX	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.4 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 59 (20') (H225481-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	2.01	101	2.00	7.59		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34		
Total BTEX	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 60 (20') (H225481-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	2.01	101	2.00	7.59		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.34		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.05	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.21	104	6.00	8.34		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 97.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 61 (20') (H225481-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/21/2022	ND	2.01	101	2.00	7.59	
Toluene*	2.44	0.500	11/21/2022	ND	2.11	105	2.00	7.34	
Ethylbenzene*	2.63	0.500	11/21/2022	ND	2.05	102	2.00	7.43	
Total Xylenes*	38.4	1.50	11/21/2022	ND	6.21	104	6.00	8.34	
Total BTEX	43.5	3.00	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1010	50.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	4420	50.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	423	50.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 169 % 45.3-161

Surrogate: 1-Chlorooctadecane 151 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 62 (20') (H225481-16)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/21/2022	ND	2.01	101	2.00	7.59	
Toluene*	2.78	0.500	11/21/2022	ND	2.11	105	2.00	7.34	
Ethylbenzene*	2.72	0.500	11/21/2022	ND	2.05	102	2.00	7.43	
Total Xylenes*	38.9	1.50	11/21/2022	ND	6.21	104	6.00	8.34	
Total BTX	44.4	3.00	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	11/22/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	721	50.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	3470	50.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	311	50.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 146 % 45.3-161

Surrogate: 1-Chlorooctadecane 139 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 63 (20') (H225481-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/21/2022	ND	2.01	101	2.00	7.59	
Toluene*	3.48	0.500	11/21/2022	ND	2.11	105	2.00	7.34	
Ethylbenzene*	3.34	0.500	11/21/2022	ND	2.05	102	2.00	7.43	
Total Xylenes*	47.7	1.50	11/21/2022	ND	6.21	104	6.00	8.34	
Total BTEX	54.6	3.00	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	11/22/2022	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	986	50.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	4230	50.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	385	50.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 164 % 45.3-161

Surrogate: 1-Chlorooctadecane 150 % 46.3-178

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Analytical Results For:

CARMONA RESOURCES
CLINT MERRITT
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 11/21/2022
Reported: 11/22/2022
Project Name: WARREN STATE #1
Project Number: 1139
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 11/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 64 (20') (H225481-18)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/21/2022	ND	2.01	101	2.00	7.59	
Toluene*	3.15	0.500	11/21/2022	ND	2.11	105	2.00	7.34	
Ethylbenzene*	2.94	0.500	11/21/2022	ND	2.05	102	2.00	7.43	
Total Xylenes*	42.0	1.50	11/21/2022	ND	6.21	104	6.00	8.34	
Total BTX	48.1	3.00	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	11/22/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	759	50.0	11/22/2022	ND	209	105	200	1.37	
DRO >C10-C28*	3120	50.0	11/22/2022	ND	210	105	200	0.578	
EXT DRO >C28-C36	260	50.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 142 % 45.3-161

Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: HA25481Page 1 of 2

Project Manager:		Clinton Merritt		Bill to: (if different)		Melodie Sanjari	
Company Name:		Carmona Resources		Company Name:		Marathon Oil Corporation	
Address:		310 W Wall St Ste 415		Address:		990 Town and Country Blvd	
City, State ZIP:		Midland, TX 79701		City, State ZIP:		Houston, TX 77024	
Phone:				Email:		msanjari@marathonoil.com	

Project Name:		Warren State #1		Turn Around		ANALYSIS REQUEST		Preservative Codes	
Project Number:		1139		☒ Routine ☒ Rush				None: NO DI Water: H ₂ O	
Project Location:		Lea County, New Mexico		Due Date:		24 HOUR		Cool: Cool MeOH: Me	
Sampler's Name:		CCM						HCL: HC HNO ₃ : HN	
PO #:								H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☒		Thermometer ID:		H ₃ PO ₄ : HP	
Received Intact:		Yes ☒ No ☒		Correction Factor:		-0.6°C		NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes ☒ No ☒		Temperature Reading:		5.3°C		Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes ☒ No ☒		Corrected Temperature:		4.7°C		Zn Acetate+NaOH: Zn	
Total Containers:								NaOH+Ascorbic Acid: SPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters										Sample Comments
SW-14 (20')	11/21/2022	13:00	X		Comp	1	BTEX 8021B										
SW-15 (20')	11/21/2022	13:05	X		Comp	1	TPH 8015M (GRO + DRO + MRO)										
SW-16 (20')	11/21/2022	13:10	X		Comp	1	Chloride 4500										
SW-17 (20')	11/21/2022	13:15	X		Comp	1											
SW-18 (20')	11/21/2022	13:20	X		Comp	1											
SW-19 (20')	11/21/2022	13:25	X		Comp	1											
SW-20 (20')	11/21/2022	13:30	X		Comp	1											
SW-21 (20')	11/21/2022	13:35	X		Comp	1											
SW-22 (20')	11/21/2022	14:20	X		Comp	1											
SW-23 (20')	11/21/2022	14:30	X		Comp	1											

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
		11-21-22 1503					

Comments:

Chain of Custody

Work Order No:

1025481

Page 2 of 2

Project Manager:	Clinton Merritt	Bill to: (if different)	Melodie Sanjari
Company Name:	Carmona Resources	Company Name:	Marathon Oil Corporation
Address:	310 W Wall St Ste 415	Address:	990 Town and County Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Houston, TX 77024
Phone:		Email:	msanjari@marathonoil.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: ☐	

Project Name:		Warren State #1		Turn Around		Pres. Code		ANALYSIS REQUEST																Preservative Codes							
Project Number:		1139		☒ Routine ☒ Rush																				None: NO DI Water: H ₂ O							
Project Location:		Lea County, New Mexico		Due Date:		24 HOUR																		Cool: Cool MeOH: Me							
Sampler's Name:		CCM																						HCL: HC HNO ₃ : HN							
PO #:																								H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☒		Wet Ice:		Yes ☒ No ☒																		H ₃ PO ₄ : HP					
Received Intact:		Yes ☒ No ☒		Thermometer ID:				113																		NaHSO ₄ : NABIS					
Cooler Custody Seals:		Yes ☒ No ☒		Correction Factor:				-0.6																		Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes ☒ No ☒		Temperature Reading:				5.33																		Zn Acetate+NaOH: Zn					
Total Containers:		Yes ☒ No ☒		Corrected Temperature:				4.72																		NaOH+Ascorbic Acid: SAPC					
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont																		Sample Comments	
CS-57 (20)		11/21/2022		13:40		X				Comp		1																			
CS-58 (20)		11/21/2022		13:45		X				Comp		1																			
CS-59 (20)		11/21/2022		13:50		X				Comp		1																			
CS-60 (20)		11/21/2022		13:55		X				Comp		1																			
CS-61 (20)		11/21/2022		14:00		X				Comp		1																			
CS-62 (20)		11/21/2022		14:05		X				Comp		1																			
CS-63 (20)		11/21/2022		14:10		X				Comp		1																			
CS-64 (20)		11/21/2022		14:15		X				Comp		1																			

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

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 179143

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 179143
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved for releases 1RP-4732 & 1RP-4738.	2/14/2023