

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Red Hills Unit #16H
Incident ID: NCH1902835814
Lea County, New Mexico
Unit D Sec 33 T25S R33E
32.092871°, -103.583600°

Produced Water Release

Point of Release: failure of the automatic sand dump valves and high-level kill switch on the sand trap pit

Release Date: 12/05/2018

Volume Released: 90 Barrels of Produced Water

Volume Recovered: 60 barrels of Produced Water

CARMONA RESOURCES



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

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 415
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432.813.1992



TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 CONCLUSION

FIGURES

FIGURE 1 OVERVIEW FIGURE 2 TOPOGRAPHIC

FIGURE 3 SAMPLE LOCATION

APPENDICES

APPENDIX A TABLES
APPENDIX B PHOTOS
APPENDIX C INITIAL AND FINAL C-141 / NMOCD CORRESPONDENCE
APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER
APPENDIX E LABORATORY REPORTS

September 22, 2022

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

Re: Closure Report
Red Hills Unit #16H
Cimarex Energy Co. of Colorado
Site Location: Unit D, S33, T25S, R33E
(Lat 32.091115°, Long -103.580868°)
Lea County, New Mexico

To whom it may concern:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for Red Hills Unit #16H. The site is located at 32.092871°, -103.583600° within Unit D, S33, T25S, R33E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on December 5, 2018, due to failure in both the automatic sand dump valves and the high-level kill switch on the sand trap pit. It resulted in approximately ninety (90) barrels of produced water, and sixty (60) barrels of produced water were recovered. The impacted area is located on the pad and is shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest groundwater determination bore is located approximately 0.07 miles Northwest of the site in S33, T25S, R33E and was drilled in 2022.

On February 10, 2022, Scarborough Drilling, Inc was onsite to drill a groundwater determination bore to 55' below ground surface and within a 0.50-mile radius of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 55' below the surface. The coordinates for the groundwater determination bore are 32.093649°, -103.584455°. See Appendix D for the log.

3.0 NMAC Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 1,000 mg/kg (GRO + DRO).



- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- Chloride: 10,000 mg/kg.

4.0 Site Assessment Activities

On January 14, 2019, Tetra Tech personnel were onsite to evaluate and sample the release area. Six (6) auger holes (AH-1 through AH-6) were installed in the spill footprint to total depths ranging from 3.0'-3.5' and 5.0'-5.5' below surface. Selected 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 laboratory analysis and chain-of-custody documentation are included in Appendix E.

On September 8, 2022, Carmona Resources was on-site to define the release horizontally and vertically. A total of one test trench (T-1) to vertically delineate AH-4, ten (10) auger holes (AH-7 through AH-16), and thirteen (13) horizontal sample points (H-1 through H-13) were installed to total depths ranging from surface to 5 ft below the surface. 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 in Midland, Texas. The samples were analyzed for TPH by EPA method 8015, modified BTEX by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports containing analytical methods, results, and chain-of-custody documents are attached in Appendix E. See Figure 3 for the sample locations.

The analytical results are provided in Table 1 and are below the RRALs requirements for TPH, BTEX, and chloride.

5.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and Cimarex formally requests closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

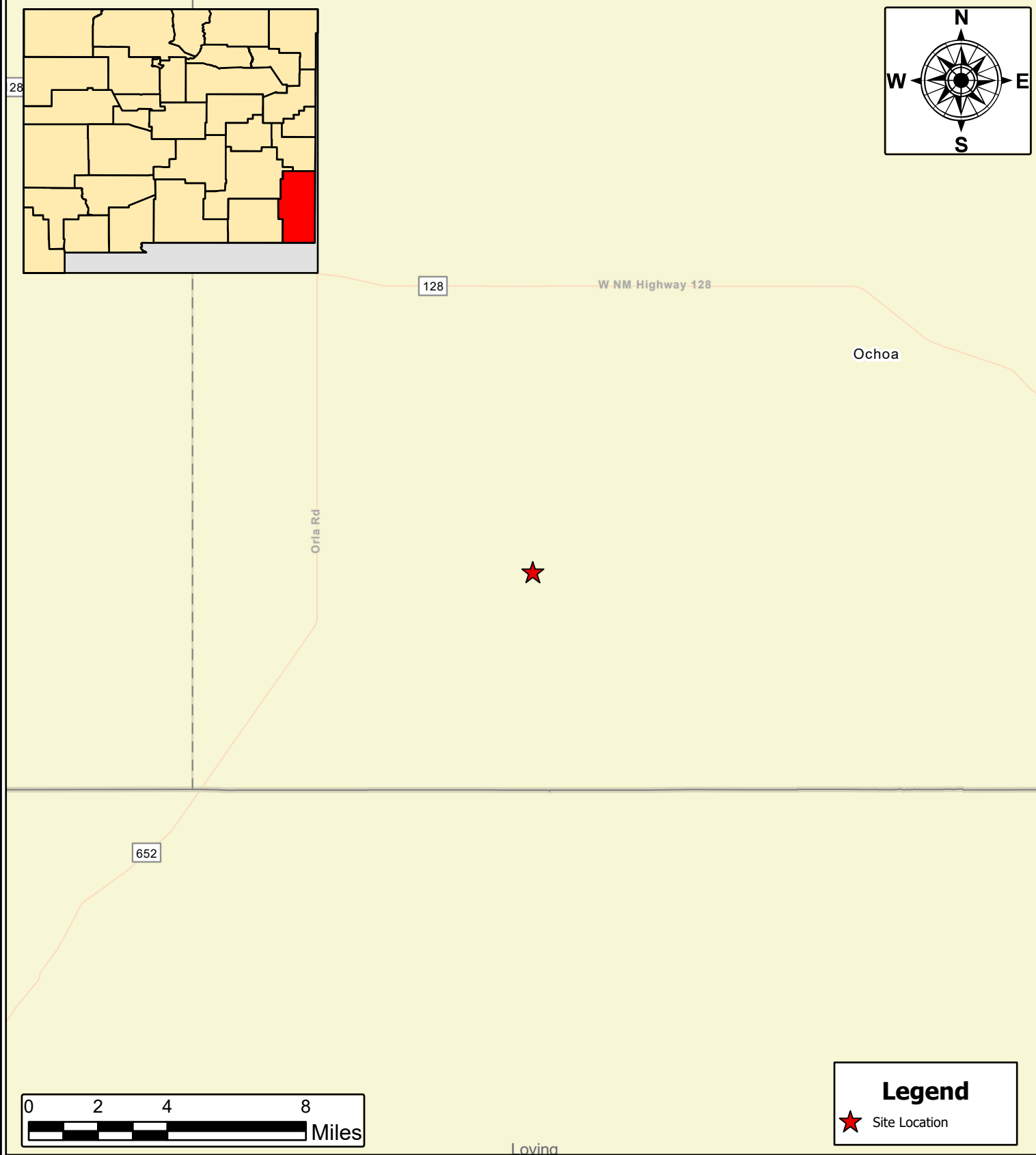
Mike Carmona
Environmental Manager

Ashton Thielke
Sr. Project Manager

FIGURES

CARMONA RESOURCES





OVERVIEW MAP
CIMAREX ENERGY CO. OF COLORADO
 RED HILLS UNIT 16H
 LEA COUNTY, NEW MEXICO
 32.092871, -103.583600

SCALE: As Shown

Date: 9/19/2022



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

NOTES:

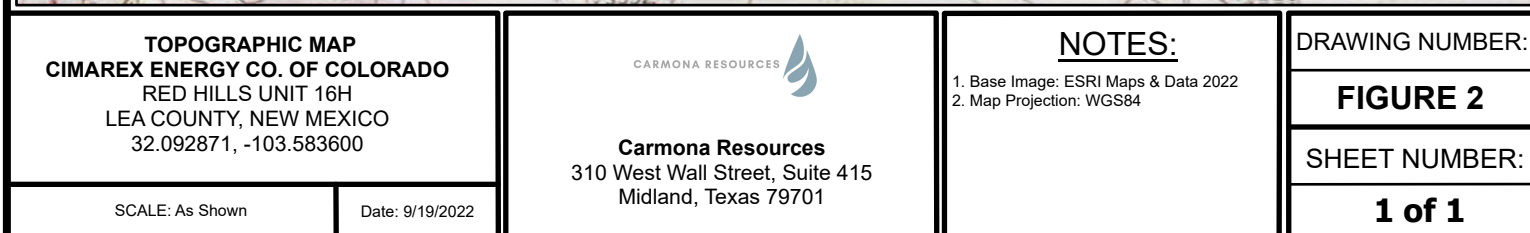
1. Base Image: ESRI Maps & Data 2022
2. Map Projection: WGS84

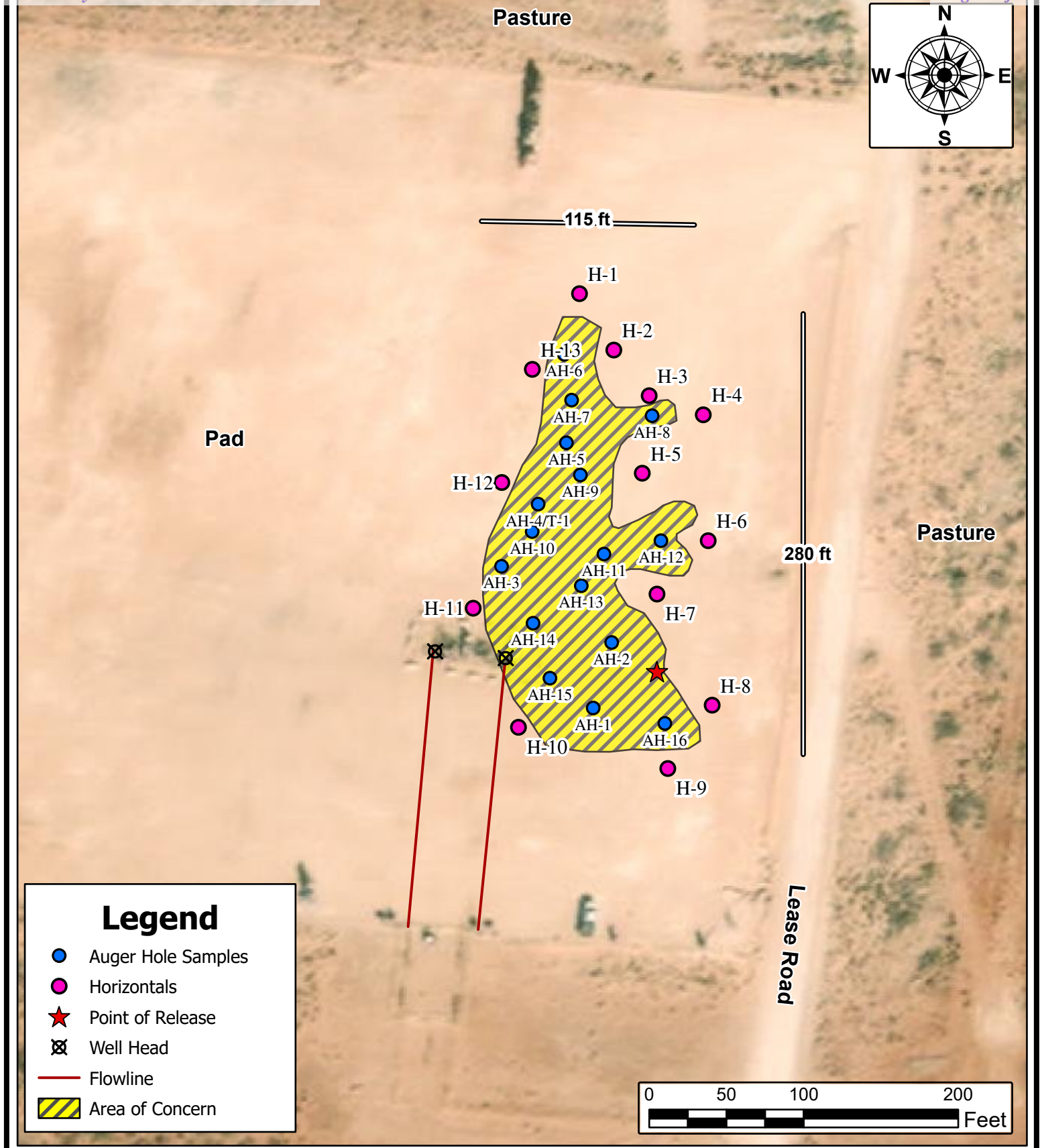
DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1





SAMPLE LOCATION MAP CIMAREX ENERGY CO. OF COLORADO RED HILLS UNIT 16H LEA COUNTY, NEW MEXICO 32.092871, -103.583600		CARMONA RESOURCES  Carmona Resources 310 West Wall Street, Suite 415 Midland, Texas 79701	<u>NOTES:</u> 1. Base Image: ESRI Maps & Data 2022 2. Map Projection: WGS84	DRAWING NUMBER:
				FIGURE 3
SCALE: As Shown	Date: 9/19/2022			SHEET NUMBER:
		1 of 1		

APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex
Red Hills Unit #16H
Lea County, New Mexico

Sample ID	Date	Depth (in)	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						
AH-1	1/14/2019	0-1	<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	556
	"	1-1.5	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	88.7
	"	2-2.5	-	-	-	-	-	-	-	-	-	107
	"	3-3.5	-	-	-	-	-	-	-	-	-	113
	"	4-4.5	-	-	-	-	-	-	-	-	-	20.9
	"	5-5.5	-	-	-	-	-	-	-	-	-	<4.95
AH-2	1/14/2019	0-1	<15.0	21.4	<15.0	21.4	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,430
	"	1-1.5	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	4,220
	"	2-2.5	-	-	-	-	-	-	-	-	-	3,330
	"	3-3.5	-	-	-	-	-	-	-	-	-	212
	"	4-4.5	-	-	-	-	-	-	-	-	-	16.9
AH-3	1/14/2019	0-1	<15.0	56.5	<15.0	56.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	102
	"	1-1.5	<15.0	75.7	<15.0	75.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	137
	"	2-2.5	-	-	-	-	-	-	-	-	-	37.8
	"	3-3.5	-	-	-	-	-	-	-	-	-	29.7
	"	4-4.5	-	-	-	-	-	-	-	-	-	158
AH-4	1/14/2019	0-1	<15.0	24.0	<15.0	24.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	845
	"	1-1.5	<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	292
	"	2-2.5	-	-	-	-	-	-	-	-	-	1,710
	"	3-3.5	-	-	-	-	-	-	-	-	-	6,060
T-1	9/8/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11.0
	"	1.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	81.3
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	207
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	76.1
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	68.1
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	70.2
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(T) Test Trench

(AH) Auger Hole

Table 1
Cimarex
Red Hills Unit #16H
Lea County, New Mexico

Sample ID	Date	Depth (in)	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						
AH-5	1/14/2019	0-1	<15.0	33.3	<15.0	33.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	166
	"	1-1.5	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	38.0
	"	2-2.5	-	-	-	-	-	-	-	-	-	111
	"	3-3.5	-	-	-	-	-	-	-	-	-	128
AH-6	1/14/2019	0-1	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	464
	"	1-1.5	<15.0	<15.0	<15.0	<15.0	-	-	-	-	-	243
	"	2-2.5	-	-	-	-	-	-	-	-	-	97.4
	"	3-3.5	-	-	-	-	-	-	-	-	-	307
AH-7	9/8/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11.4
	"	1-1.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	93.3
	"	2-2.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	115
AH-8	9/8/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	336
	"	1-1.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	58.5
	"	2-2.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	86.7
AH-9	9/8/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	111
	"	1-1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	55.2
	"	2-2.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	28.1
AH-10	9/8/2022	0-1	<50.0	75.5	<50.0	75.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	550
	"	1-1.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,090
	"	2-2.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	2,640
	"	3-3.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	2,260
	"	4-4.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	90.0
AH-11	9/8/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	291
	"	1-1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	68.9
	"	2-2.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	71.3
AH-12	9/8/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	665
	"	1-1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	60.0
	"	2-2.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	19.4
Regulatory Criteria ^A			1,000 mg/kg		2,500 mg/kg		10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(AH) Auger Hole

Table 1
Cimarex
Red Hills Unit #16H
Lea County, New Mexico

Sample ID	Date	Depth (in)	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						
AH-13	9/8/2022	0-1	<49.9	180	<49.9	180	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	301
	"	1-1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	55.4
	"	2-2.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	28.1
AH-14	9/8/2022	0-1	<49.9	51.5	<49.9	51.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	69.2
	"	1-1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,970
	"	2-2.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,390
	"	3-3.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	24.2
AH-15	9/8/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	438
	"	1-1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	110
	"	2-2.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	66.0
AH-16	9/8/2022	0-1	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	587
	"	1-1.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	75.3
	"	2-2.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	15.6
Regulatory Criteria^A			1,000 mg/kg		2,500 mg/kg		10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(AH) Auger Hole

Table 1
Cimarex
Red Hills Unit #16H
Lea County, New Mexico

Sample ID	Date	Depth (in)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	9/8/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	124
H-2	9/8/2022	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	104
H-3	9/8/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	116
H-4	9/8/2022	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	96.6
H-5	9/8/2022	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	103
H-6	9/8/2022	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	170
H-7	9/8/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	91.9
H-8	9/8/2022	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	98.0
H-9	9/8/2022	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	150
H-10	9/8/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	110
H-11	9/8/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	117
H-12	9/8/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	110
H-13	9/8/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	113
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(H) Horizontal

APPENDIX B

CARMONA RESOURCES



Cimarex Energy
Red Hills Unit #16H
Lea County, New Mexico



Area of AH-1 – View to Northwest



Area of AH-2 – View Northeast

Cimarex Energy
Red Hills Unit #16H
Lea County, New Mexico



Area of AH-3 – View to East



Area of AH-4 – View West

Cimarex Energy
Red Hills Unit #16H
Lea County, New Mexico



Area of AH-5 – View to North



Area of AH-6 – View West

PHOTOGRAPHIC LOG

Cimarex

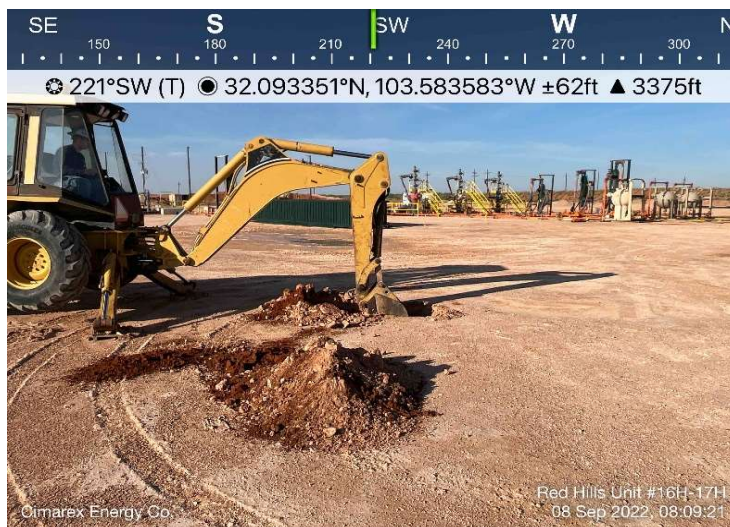
Photograph No. 1

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View Southwest, area of Test Trench (T-1).



Photograph No. 2

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View Northwest, area of Auger Hole (AH-7).



Photograph No. 3

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View North, area of Auger Hole (AH-8).



PHOTOGRAPHIC LOG

Cimarex

Photograph No. 4

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View North, area of Auger Hole (AH-9).



Photograph No. 5

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View North, area of Auger Hole (AH-10).



Photograph No. 6

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View North, area of Auger Hole (AH-11).



PHOTOGRAPHIC LOG

Cimarex

Photograph No. 7

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View North, area of Auger Hole (AH-12).



Photograph No. 8

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View North, area of Auger Hole (AH-13).



Photograph No. 9

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View North, area of Auger Hole (AH-14).



PHOTOGRAPHIC LOG

Cimarex

Photograph No. 10

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View North, area of Auger Hole (AH-15).



Photograph No. 11

Facility: Red Hills Unit #16H

County: Lea County, New Mexico

Description:

View North, area of Auger Hole (AH-16).



APPENDIX C

CARMONA RESOURCES



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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Cimarex Energy	OGRID 162683
Contact Name Christine Alderman	Contact Telephone 432-853-7059
Contact email calderman@cimarex.com	Incident # (assigned by OCD)
Contact mailing address 600 N Marienfeld Ste 60, Midland, TX 79701	

Location of Release Source

Latitude 32.0911154 Longitude -103.5808688
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Red Hills Unit 16H	Site Type well pad
Date Release Discovered 12/5/2018	API# (if applicable) 30-025-42324

Unit Letter	Section	Township	Range	County
D	33	35S	33E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 90	Volume Recovered (bbls) 60
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Approximately 90 bbls of produced water were released onto the pad due to the failure of both the automatic sand dump valves and the high level kill switch on the sand trap pit.

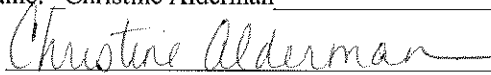
State of New Mexico
Oil Conservation Division

Incident ID	Page 24 of 200
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? >25 bbls spilled.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes Christine Alderman Email – Olivia Yu, Christina Hernandez, Shelly Tucker, Jim Griswold	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Christine Alderman	Title: ESH Supervisor
Signature: 	Date: 12/6/2018
email: calderman@cimarex.com	Telephone: 432-853-7059
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nCH1902835814
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?	<u>>55'</u> (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

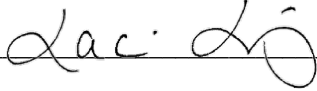
Page 4

Incident ID	nCH1902835814
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: ____Laci Luig____

Title: ____ESH Specialist____

Signature: 

Date: ____9/15/2022____

email: __laci.luig@coterra.com____

Telephone: ____432-208-3035____

OCD Only

Received by: ____Jocelyn Harimon____

Date: __09/22/2022____

Incident ID	nCH1902835814
District RP	
Facility ID	
Application ID	

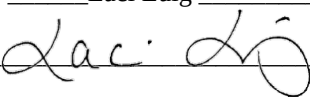
Closure

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

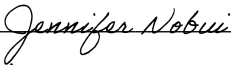
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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: _____ Laci Luig _____ Title: _____ ESH Specialist _____
Signature: _____  _____ Date: _____ 9/15/2022 _____
email: _____ laci.luig@coterra.com _____ Telephone: _____ 432-208-3035 _____

OCD Only

Received by: _____ Jocelyn Harimon _____ Date: _____ 09/22/2022 _____

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: _____  _____ Date: _____ 12/07/2022 _____
Printed Name: _____ Jennifer Nobui _____ Title: _____ Environmental Specialist A _____

Ashton Thielke

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Wednesday, August 31, 2022 12:27 PM
To: Ashton Thielke
Cc: Laci Luig; Billings, Bradford, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] nCH1902835814 - Red Hills Unit 16H

Hello Ashton

OCD concurs with your proposed scope outlined below. However, additional soil samples need to be collected within the "spill area". OCD will require more than 6 soil samples within the release to justify closure. Let me know if you have any questions.

Thanks,

Jennifer Nobui, PG • Environmental Specialist A
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113
505.470-3407 | Jennifer.Nobui@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Wednesday, August 31, 2022 9:03 AM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Cc: Laci Luig <Laci.Luig@coterra.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Subject: RE: [EXTERNAL] nCH1902835814 - Red Hills Unit 16H

Good morning,

Thank you for taking the time to review that denial for me; I understand everyone is extremely busy.

As of recently (02/10/2022), we have installed a Groundwater determination bore on the north side of this pad. We Drilled to 55'bgs and then returned 72 hours to check for the presence of water, which was dry.

Attached is documentation from this event.

With the initial sampling that was taken place originally, I would suggest fully delineating AH-4 to less than 600 mg/kg on chlorides since that was not accomplished during the initial assessment.

I would also suggest collecting numerous horizontal samples outside the spill area to define the spill area horizontally since that was also not accomplished during the initial assessment.

Once that data comes back from the lab and groundwater is >51' (10,000 Chloride, 2,500 mg/kg TPH..etc.), I would like to rewrite and resubmit the closure report to include the new groundwater determination and analytical results. I want to ensure the necessary steps are taken to resolve this beforehand.

Please let me know your stance on this and if you have any recommendations.

Thanks,



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.5347 | M: 281.753.5659 | ashton.thielke@coterra.com | www.coterra.com

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

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

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>

Sent: Tuesday, August 30, 2022 1:49 PM

To: Ashton Thielke <Ashton.Thielke@coterra.com>

Cc: Laci Luig <Laci.Luig@coterra.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Subject: RE: [EXTERNAL] nCH1902835814 - Red Hills Unit 16H

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

Hello Ashton

We can certainly go over this denial with you. Besides not collecting a sufficient number of soil samples, the depth to groundwater has also not been proven and you will either need to advance a boring to 55' or follow the most stringent guidelines. Let us know when you would like to set up a meeting and we can take it from there.

Thanks

Jennifer Nobui, PG • Environmental Specialist A

Environmental Bureau

EMNRD - Oil Conservation Division

5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

505.470-3407 | Jennifer.Nobui@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>

From: Ashton Thielke <Ashton.Thielke@coterra.com>

Sent: Monday, August 29, 2022 6:54 PM

To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>

Cc: Laci Luig <Laci.Luig@coterra.com>

Subject: [EXTERNAL] nCH1902835814 - Red Hills Unit 16H

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

Good Evening Ms. Nobui,

My name is Ashton Thielke and I currently work for Carmona Resources, under the direct supervision of Mike Carmona. I am currently helping out Cimarex/Coterra close out older historical spills and I have run across the above mentioned spill that I would like you to revisit whenever you have some free time.

Attached is the original closure report along with the denial message from Mr. Robert Hamlet. The assessment and report was all written during the transition of the old rule and new rule changes in 2018 as well.

Is there a way that we can possibly set up a time to talk on the phone about this spill/report and next steps going forward?

I have a few suggestions on how I would like to close this report out on and I would love to hear your input.

Thanks,



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.5347 | M: 281.753.5659 | ashton.thielke@coterra.com | www.coterra.com

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

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

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This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise the sender immediately by reply e-mail and delete this message.

APPENDIX D

CARMONA RESOURCES

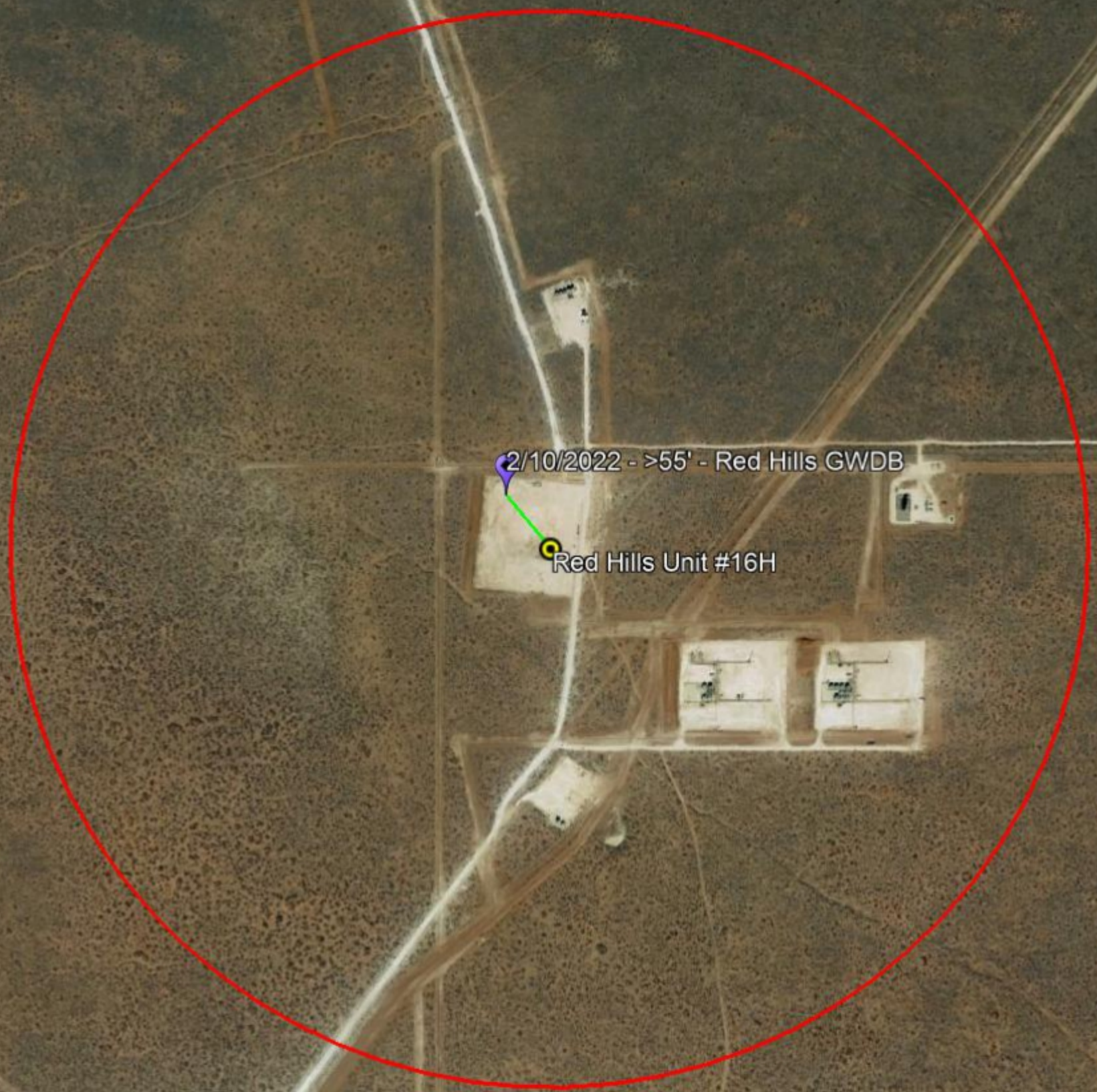


Nearest water well

Cimarex Energy Co.

Legend

- 0.07 Miles
- 0.50 Mile Radius
- 2/10/2022 - >55' - Red Hills GWDB
- Red Hills Unit #16H



2000 ft

Low Karst

Cimarex Energy Co.

Legend

- Low
- Medium
- Red Hills Unit #16H

Red Hills Unit #16H



2000 ft

Daily Site Visit Report

Client:	Cimarex Energy Company of Colorado	Inspection Date:	2/10/2022
Site Location Name:	Red Hills Unit 1 SWD	Report Run Date:	2/28/2022 4:17 PM
Client Contact Name:	Kyle Blevins	API #:	
Client Contact Phone #:	(575)441-6781		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	2/10/2022 9:00 AM
Departed Site	2/10/2022 11:00 AM

Field Notes

9:10 Arrived on site and met up with Laci Luig from cimarex and no Scarborough drilling to drill for a GW bore.

9:14 Signed Cimarex JSA

Next Steps & Recommendations

1 Digitize the drilling log and come back within 72 hours to see if a bailer pulls up water. Borehole was drilled to 55 feet.

Daily Site Visit Report

Site Photos

Viewing Direction: North



Borehole Location

Viewing Direction: West



30' depth

Viewing Direction: West



PVC Installation

Viewing Direction: West



35' depth

Daily Site Visit Report

Viewing Direction: West  Descriptive Photo - 5 Viewing Direction: West Desc: 45' depth Created: 2/10/2022 10:28:59 AM Lat: 32.053649 Long: -103.584455	Viewing Direction: West  Descriptive Photo - 6 Viewing Direction: West Desc: 50' depth Created: 2/10/2022 10:29:39 AM Lat: 32.053649 Long: -103.584455
45' depth	50' depth
Viewing Direction: West  Descriptive Photo - 7 Viewing Direction: West Desc: PVC casing installation Created: 2/10/2022 10:28:39 AM Lat: 32.053649 Long: -103.584455	Viewing Direction: North  Descriptive Photo - 8 Viewing Direction: North Desc: Top 30' and goes down in 5' increments to 50' Created: 2/10/2022 10:29:39 AM Lat: 32.053649 Long: -103.584455
PVC casing installation	Top 30' and goes down in 5' increments to 50'

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Mike Moffitt

Signature:


Signature

Daily Site Visit Report

Client:	Cimarex Energy Company of Colorado	Inspection Date:	2/15/2022
Site Location Name:	Red Hills Unit 1 SWD	Report Run Date:	2/28/2022 3:56 PM
Client Contact Name:	Kyle Blevins	API #:	
Client Contact Phone #:	(575)441-6781		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	2/15/2022 11:30 AM
Departed Site	2/15/2022 11:52 AM

Field Notes

- 11:42** Arrived on site to put a bailer down the borehole to see if water moves through the screen and collected at depth.
- 11:43** Tied off the bailer with rope and a slip note around my hand for 65 feet worth of depth. this was to account for the 2 inch casing above ground.
- 11:44** Sent the bailer down hole from on top of my truck bed.
- 11:45** Moisture was felt on the hand line while pulling the bailer up. This was likely due to humidity within the casing and having been left to sit for over 72 hours plus.
- 11:46** Pulled the bailer up and only moisture but no water was found to be present.
- 11:49** Total depth of the well was measured with a tape and weight to be 55 feet BGS and 61 feet total. The additional footage was from the 6ft of PVC casing located above the hole. The driller did this to make the Borehole location known to the workers on the pad.

Next Steps & Recommendations

- 1** Water was not present at the bottom of the borehole as evidenced by the results of trying to bail the well. This location is ready for P & A. No further testing will be required. GW is not present at 55' feet BGS.

Daily Site Visit Report

Site Photos

Viewing Direction: North



Location of Borehole and PVC casing above ground.

Viewing Direction: East



Bailer post DTGW test.

Daily Site Visit Report

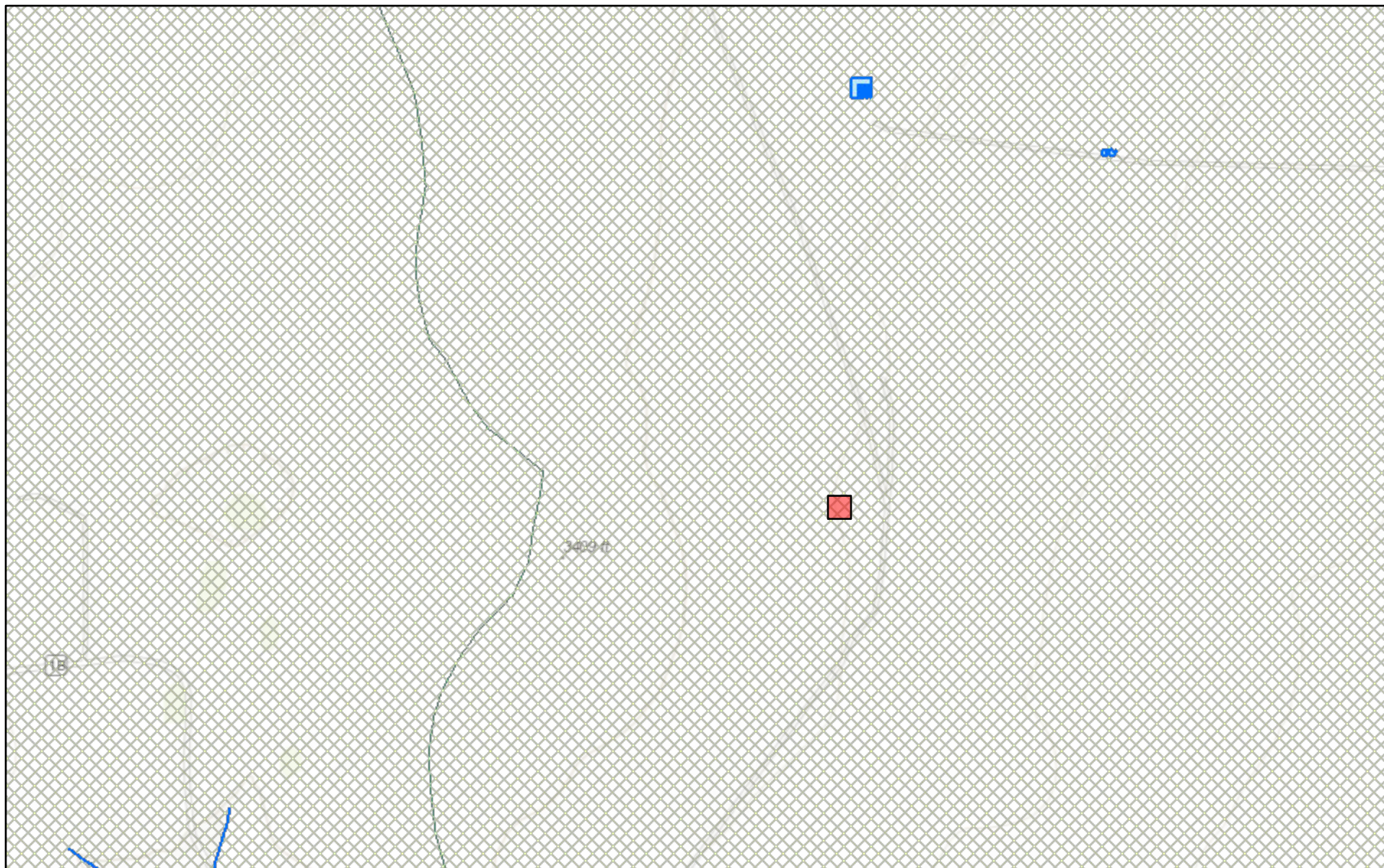
Daily Site Visit Signature

Inspector: Mike Moffitt

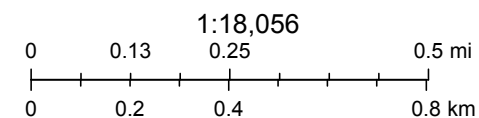
Signature:


Signature

New Mexico NFHL Data



September 2, 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





Certificate of Analysis Summary 611308

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Red Hills Unit 16



Project Id: 212C-MD-01557
Contact: Clair Gonzales
Project Location: Lea Co,NM

Date Received in Lab: Tue Jan-15-19 10:10 am
Report Date: 21-JAN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	611308-001	611308-002	611308-003	611308-004	611308-005	611308-006
	<i>Field Id:</i>	AH #1 (0-1')	AH #1 (1-1.5')	AH #1 (2-2.5')	AH #1 (3-3.5')	AH #1 (4-4.5')	AH #1 (5-5.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-18-19 13:00	Jan-18-19 13:00				
	<i>Analyzed:</i>	Jan-18-19 22:55	Jan-18-19 23:17				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		<0.00202 0.00202	<0.00200 0.00200				
Toluene		<0.00202 0.00202	<0.00200 0.00200				
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200				
m,p-Xylenes		<0.00403 0.00403	<0.00400 0.00400				
o-Xylene		<0.00202 0.00202	<0.00200 0.00200				
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200				
Total BTEX		<0.00202 0.00202	<0.00200 0.00200				
Chloride by EPA 300	<i>Extracted:</i>	Jan-17-19 09:30	Jan-17-19 09:30	Jan-17-19 09:30	Jan-17-19 09:30	Jan-17-19 09:30	Jan-17-19 09:30
	<i>Analyzed:</i>	Jan-17-19 14:09	Jan-17-19 14:33	Jan-17-19 14:39	Jan-17-19 15:01	Jan-17-19 15:07	Jan-17-19 15:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		556 4.97	88.7 4.98	107 4.95	113 4.99	20.9 4.99	<4.95 4.95
TPH By SW8015 Mod	<i>Extracted:</i>	Jan-18-19 15:00	Jan-18-19 15:00				
	<i>Analyzed:</i>	Jan-19-19 02:37	Jan-19-19 01:18				
	<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)		<15.0 15.0	<15.0 15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0				
Total TPH		<15.0 15.0	<15.0 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.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 611308

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Red Hills Unit 16



Project Id: 212C-MD-01557
Contact: Clair Gonzales
Project Location: Lea Co,NM

Date Received in Lab: Tue Jan-15-19 10:10 am
Report Date: 21-JAN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	611308-007	611308-008	611308-009	611308-010	611308-011	611308-012
	<i>Field Id:</i>	AH #2 (0-1')	AH #2 (1-1.5')	AH #2 (2-2.5')	AH #2 (3-3.5')	AH #2 (4-4.5')	AH #3 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-18-19 13:00	Jan-18-19 13:00				Jan-18-19 13:00
	<i>Analyzed:</i>	Jan-18-19 23:38	Jan-19-19 00:00				Jan-19-19 00:21
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				mg/kg RL
Benzene		<0.00201 0.00201	<0.00199 0.00199				<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00199 0.00199				<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199				<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398				0.00616 0.00401
o-Xylene		<0.00201 0.00201	<0.00199 0.00199				0.0144 0.00200
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199				0.0206 0.00200
Total BTEX		<0.00201 0.00201	<0.00199 0.00199				0.0206 0.00200
Chloride by EPA 300	<i>Extracted:</i>	Jan-17-19 09:30	Jan-17-19 09:30	Jan-17-19 09:30	Jan-17-19 09:30	Jan-17-19 10:00	Jan-17-19 10:00
	<i>Analyzed:</i>	Jan-17-19 15:20	Jan-17-19 15:26	Jan-17-19 15:32	Jan-17-19 15:38	Jan-17-19 16:43	Jan-17-19 16:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3430 25.0	4220 25.0	3330 25.0	212 5.00	16.9 5.00	102 4.95
TPH By SW8015 Mod	<i>Extracted:</i>	Jan-18-19 15:00	Jan-18-19 15:00				Jan-18-19 15:00
	<i>Analyzed:</i>	Jan-19-19 00:58	Jan-19-19 00:38				Jan-19-19 00:19
	<i>Units/RL:</i>	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)		21.4 15.0	<15.0 15.0				56.5 15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0				<15.0 15.0
Total TPH		21.4 15.0	<15.0 15.0				56.5 15.0

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 611308

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Red Hills Unit 16



Project Id: 212C-MD-01557
Contact: Clair Gonzales
Project Location: Lea Co,NM

Date Received in Lab: Tue Jan-15-19 10:10 am
Report Date: 21-JAN-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	611308-013	611308-014	611308-015	611308-016	611308-017	611308-018
	Field Id:	AH #3 (1-1.5')	AH #3 (2-2.5')	AH #3 (3-3.5')	AH #3 (4-4.5')	AH #4 (0-1')	AH #4 (1-1.5')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00
BTEX by EPA 8021B	Extracted:	Jan-18-19 13:00				Jan-18-19 14:30	Jan-18-19 14:30
	Analyzed:	Jan-19-19 00:43				Jan-18-19 21:29	Jan-18-19 21:48
	Units/RL:	mg/kg RL				mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200				<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00200 0.00200				<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00200 0.00200				<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00399 0.00399				<0.00399 0.00399	<0.00403 0.00403
o-Xylene		0.00204 0.00200				<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		0.00204 0.00200				<0.00200 0.00200	<0.00202 0.00202
Total BTEX		0.00204 0.00200				<0.00200 0.00200	<0.00202 0.00202
Chloride by EPA 300	Extracted:	Jan-17-19 10:00	Jan-17-19 10:00	Jan-17-19 10:00	Jan-17-19 10:00	Jan-17-19 10:00	Jan-17-19 10:00
	Analyzed:	Jan-17-19 16:56	Jan-17-19 17:02	Jan-17-19 17:23	Jan-17-19 17:29	Jan-17-19 17:36	Jan-17-19 17:42
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		137 5.00	37.8 5.00	29.7 5.00	158 4.95	845 4.95	292 4.99
TPH By SW8015 Mod	Extracted:	Jan-18-19 15:00				Jan-18-19 15:00	Jan-18-19 15:00
	Analyzed:	Jan-18-19 23:59				Jan-18-19 23:40	Jan-18-19 23:20
	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)		75.7 15.0				24.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0				<15.0 15.0	<15.0 15.0
Total TPH		75.7 15.0				24.0 15.0	<15.0 15.0

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 611308

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Red Hills Unit 16



Project Id: 212C-MD-01557
Contact: Clair Gonzales
Project Location: Lea Co,NM

Date Received in Lab: Tue Jan-15-19 10:10 am
Report Date: 21-JAN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	611308-019	611308-020	611308-021	611308-022	611308-023	611308-024
	<i>Field Id:</i>	AH #4 (2-2.5')	AH #4 (3-3.5')	AH #5 (0-1')	AH #5 (1-1.5')	AH #5 (2-2.5')	AH #5 (3-3.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>			Jan-18-19 14:30	Jan-18-19 14:30		
	<i>Analyzed:</i>			Jan-18-19 22:07	Jan-18-19 22:26		
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL		
Benzene				<0.00200 0.00200	<0.00201 0.00201		
Toluene				<0.00200 0.00200	<0.00201 0.00201		
Ethylbenzene				<0.00200 0.00200	<0.00201 0.00201		
m,p-Xylenes				<0.00401 0.00401	<0.00402 0.00402		
o-Xylene				<0.00200 0.00200	<0.00201 0.00201		
Total Xylenes				<0.00200 0.00200	<0.00201 0.00201		
Total BTEX				<0.00200 0.00200	<0.00201 0.00201		
Chloride by EPA 300	<i>Extracted:</i>	Jan-17-19 10:00	Jan-17-19 10:00	Jan-17-19 10:00	Jan-17-19 10:00	Jan-17-19 10:00	Jan-17-19 10:00
	<i>Analyzed:</i>	Jan-17-19 17:48	Jan-17-19 18:13	Jan-17-19 17:54	Jan-17-19 18:19	Jan-17-19 18:40	Jan-17-19 18:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1710 25.0	6060 49.6	166 4.97	38.0 4.98	111 4.97	128 5.00
TPH By SW8015 Mod	<i>Extracted:</i>			Jan-18-19 15:00	Jan-18-19 15:00		
	<i>Analyzed:</i>			Jan-18-19 22:41	Jan-19-19 02:17		
	<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)				33.3 15.0	<15.0 15.0		
Motor Oil Range Hydrocarbons (MRO)				<15.0 15.0	<15.0 15.0		
Total TPH				33.3 15.0	<15.0 15.0		

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 611308

Tetra Tech- Midland, Midland, TX

Project Name: Cimarex Red Hills Unit 16



Project Id: 212C-MD-01557
Contact: Clair Gonzales
Project Location: Lea Co,NM

Date Received in Lab: Tue Jan-15-19 10:10 am
Report Date: 21-JAN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	611308-025	611308-026	611308-027	611308-028		
	<i>Field Id:</i>	AH #6 (0-1')	AH #6 (1-1.5')	AH #6 (2-2.5')	AH #6 (3-3.5')		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00	Jan-14-19 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-18-19 14:30					
	<i>Analyzed:</i>	Jan-18-19 22:45					
	<i>Units/RL:</i>	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00399 0.00399					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Chloride by EPA 300	<i>Extracted:</i>	Jan-17-19 10:00	Jan-17-19 10:00	Jan-17-19 10:00	Jan-17-19 10:00		
	<i>Analyzed:</i>	Jan-17-19 18:53	Jan-17-19 18:59	Jan-17-19 19:05	Jan-17-19 16:25		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		464 4.96	243 4.98	97.4 5.00	307 5.00		
TPH By SW8015 Mod	<i>Extracted:</i>	Jan-18-19 15:00	Jan-18-19 15:00				
	<i>Analyzed:</i>	Jan-18-19 21:41	Jan-18-19 23:00				
	<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)		<15.0 15.0	<15.0 15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0				
Total TPH		<15.0 15.0	<15.0 15.0				

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Jessica Kramer

Jessica Kramer
Project Assistant

Analytical Report 611308

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Cimarex Red Hills Unit 16

212C-MD-01557

21-JAN-19

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

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

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

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



21-JAN-19

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **611308**

Cimarex Red Hills Unit 16

Project Address: Lea Co,NM

Clair Gonzales:

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) 611308. 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. 611308 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 that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

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Sample Cross Reference 611308

Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH #1 (0-1')	S	01-14-19 00:00		611308-001
AH #1 (1-1.5')	S	01-14-19 00:00		611308-002
AH #1 (2-2.5')	S	01-14-19 00:00		611308-003
AH #1 (3-3.5')	S	01-14-19 00:00		611308-004
AH #1 (4-4.5')	S	01-14-19 00:00		611308-005
AH #1 (5-5.5')	S	01-14-19 00:00		611308-006
AH #2 (0-1')	S	01-14-19 00:00		611308-007
AH #2 (1-1.5')	S	01-14-19 00:00		611308-008
AH #2 (2-2.5')	S	01-14-19 00:00		611308-009
AH #2 (3-3.5')	S	01-14-19 00:00		611308-010
AH #2 (4-4.5')	S	01-14-19 00:00		611308-011
AH #3 (0-1')	S	01-14-19 00:00		611308-012
AH #3 (1-1.5')	S	01-14-19 00:00		611308-013
AH #3 (2-2.5')	S	01-14-19 00:00		611308-014
AH #3 (3-3.5')	S	01-14-19 00:00		611308-015
AH #3 (4-4.5')	S	01-14-19 00:00		611308-016
AH #4 (0-1')	S	01-14-19 00:00		611308-017
AH #4 (1-1.5')	S	01-14-19 00:00		611308-018
AH #4 (2-2.5')	S	01-14-19 00:00		611308-019
AH #4 (3-3.5')	S	01-14-19 00:00		611308-020
AH #5 (0-1')	S	01-14-19 00:00		611308-021
AH #5 (1-1.5')	S	01-14-19 00:00		611308-022
AH #5 (2-2.5')	S	01-14-19 00:00		611308-023
AH #5 (3-3.5')	S	01-14-19 00:00		611308-024
AH #6 (0-1')	S	01-14-19 00:00		611308-025
AH #6 (1-1.5')	S	01-14-19 00:00		611308-026
AH #6 (2-2.5')	S	01-14-19 00:00		611308-027
AH #6 (3-3.5')	S	01-14-19 00:00		611308-028

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Cimarex Red Hills Unit 16**Project ID: 212C-MD-01557
Work Order Number(s): 611308Report Date: 21-JAN-19
Date Received: 01/15/2019**Sample receipt non conformances and comments:**

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3076360 BTEX by EPA 8021B

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

Batch: LBA-3076361 BTEX by EPA 8021B

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

Lab Sample ID 611308-017 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 611308-017, -018, -021, -022, -025.

The Laboratory Control Sample for m,p-Xylenes, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3076398 TPH By SW8015 Mod

Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 611308-018, 611308-001.



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #1 (0-1')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-001

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 09.30

Basis: Wet Weight

Seq Number: 3076263

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	556	4.97	mg/kg	01.17.19 14.09		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.19.19 02.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.19.19 02.37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.19.19 02.37	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.19.19 02.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	189	%	70-135	01.19.19 02.37	**	
o-Terphenyl	84-15-1	193	%	70-135	01.19.19 02.37	**	



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #1 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-001

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 13.00

Basis: Wet Weight

Seq Number: 3076360

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.18.19 22.55	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.18.19 22.55	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.18.19 22.55	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.18.19 22.55	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.18.19 22.55	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.18.19 22.55	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.18.19 22.55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.18.19 22.55		
4-Bromofluorobenzene	460-00-4	106	%	70-130	01.18.19 22.55		



Certificate of Analytical Results 611308

Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #1 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-002

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 09.30

Basis: Wet Weight

Seq Number: 3076263

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	88.7	4.98	mg/kg	01.17.19 14.33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.19.19 01.18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.19.19 01.18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.19.19 01.18	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.19.19 01.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	01.19.19 01.18	
o-Terphenyl	84-15-1	92	%	70-135	01.19.19 01.18	



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #1 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-002

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 13.00

Basis: Wet Weight

Seq Number: 3076360

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.18.19 23.17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.18.19 23.17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.18.19 23.17	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.18.19 23.17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.18.19 23.17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.18.19 23.17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.18.19 23.17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	70-130	01.18.19 23.17		
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.18.19 23.17		



Certificate of Analytical Results 611308

Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #1 (2-2.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-003

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 09.30

Basis: Wet Weight

Seq Number: 3076263

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	107	4.95	mg/kg	01.17.19 14.39		1



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #1 (3-3.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-004

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 09.30

Basis: Wet Weight

Seq Number: 3076263

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	113	4.99	mg/kg	01.17.19 15.01		1



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #1 (4-4.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-005

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 09.30

Basis: Wet Weight

Seq Number: 3076263

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.9	4.99	mg/kg	01.17.19 15.07		1



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #1 (5-5.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-006

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 09.30

Basis: Wet Weight

Seq Number: 3076263

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	01.17.19 15.13	U	1



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #2 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-007

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 09.30

Basis: Wet Weight

Seq Number: 3076263

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3430	25.0	mg/kg	01.17.19 15.20		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.19.19 00.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	21.4	15.0	mg/kg	01.19.19 00.58		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.19.19 00.58	U	1
Total TPH	PHC635	21.4	15.0	mg/kg	01.19.19 00.58		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	01.19.19 00.58	
o-Terphenyl	84-15-1	91	%	70-135	01.19.19 00.58	



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #2 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-007

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 13.00

Basis: Wet Weight

Seq Number: 3076360

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.18.19 23.38	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.18.19 23.38	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.18.19 23.38	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.18.19 23.38	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.18.19 23.38	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.18.19 23.38	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.18.19 23.38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.18.19 23.38		
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.18.19 23.38		



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #2 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-008

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 09.30

Basis: Wet Weight

Seq Number: 3076263

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4220	25.0	mg/kg	01.17.19 15.26		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.19.19 00.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.19.19 00.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.19.19 00.38	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.19.19 00.38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-135	01.19.19 00.38		
o-Terphenyl	84-15-1	89	%	70-135	01.19.19 00.38		



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #2 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-008

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 13.00

Basis: Wet Weight

Seq Number: 3076360

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.19.19 00.00	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.19.19 00.00	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.19.19 00.00	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.19.19 00.00	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.19.19 00.00	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.19.19 00.00	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.19.19 00.00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	01.19.19 00.00		
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.19.19 00.00		



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #2 (2-2.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-009

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 09.30

Basis: Wet Weight

Seq Number: 3076263

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3330	25.0	mg/kg	01.17.19 15.32		5



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #2 (3-3.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-010

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 09.30

Basis: Wet Weight

Seq Number: 3076263

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	212	5.00	mg/kg	01.17.19 15.38		1



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #2 (4-4.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-011

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.9	5.00	mg/kg	01.17.19 16.43		1



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #3 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-012

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	4.95	mg/kg	01.17.19 16.49		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.19.19 00.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	56.5	15.0	mg/kg	01.19.19 00.19		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.19.19 00.19	U	1
Total TPH	PHC635	56.5	15.0	mg/kg	01.19.19 00.19		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	01.19.19 00.19		
o-Terphenyl	84-15-1	94	%	70-135	01.19.19 00.19		



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #3 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-012

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 13.00

Basis: Wet Weight

Seq Number: 3076360

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.19.19 00.21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.19.19 00.21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.19.19 00.21	U	1
m,p-Xylenes	179601-23-1	0.00616	0.00401	mg/kg	01.19.19 00.21		1
o-Xylene	95-47-6	0.0144	0.00200	mg/kg	01.19.19 00.21		1
Total Xylenes	1330-20-7	0.0206	0.00200	mg/kg	01.19.19 00.21		1
Total BTEX		0.0206	0.00200	mg/kg	01.19.19 00.21		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	70-130	01.19.19 00.21		
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.19.19 00.21		



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #3 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-013

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	137	5.00	mg/kg	01.17.19 16.56		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.18.19 23.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	75.7	15.0	mg/kg	01.18.19 23.59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.18.19 23.59	U	1
Total TPH	PHC635	75.7	15.0	mg/kg	01.18.19 23.59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	01.18.19 23.59	
o-Terphenyl	84-15-1	91	%	70-135	01.18.19 23.59	



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #3 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-013

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 13.00

Basis: Wet Weight

Seq Number: 3076360

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.19.19 00.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.19.19 00.43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.19.19 00.43	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.19.19 00.43	U	1
o-Xylene	95-47-6	0.00204	0.00200	mg/kg	01.19.19 00.43		1
Total Xylenes	1330-20-7	0.00204	0.00200	mg/kg	01.19.19 00.43		1
Total BTEX		0.00204	0.00200	mg/kg	01.19.19 00.43		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.19.19 00.43		
4-Bromofluorobenzene	460-00-4	123	%	70-130	01.19.19 00.43		



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #3 (2-2.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-014

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	37.8	5.00	mg/kg	01.17.19 17.02		1



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #3 (3-3.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-015

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.7	5.00	mg/kg	01.17.19 17.23		1



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Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #3 (4-4.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-016

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	158	4.95	mg/kg	01.17.19 17.29		1



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #4 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-017

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	845	4.95	mg/kg	01.17.19 17.36		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.18.19 23.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	24.0	15.0	mg/kg	01.18.19 23.40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.18.19 23.40	U	1
Total TPH	PHC635	24.0	15.0	mg/kg	01.18.19 23.40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	01.18.19 23.40	
o-Terphenyl	84-15-1	89	%	70-135	01.18.19 23.40	



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #4 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-017

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 14.30

Basis: Wet Weight

Seq Number: 3076361

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.18.19 21.29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.18.19 21.29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.18.19 21.29	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.18.19 21.29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.18.19 21.29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.18.19 21.29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.18.19 21.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	01.18.19 21.29		
1,4-Difluorobenzene	540-36-3	115	%	70-130	01.18.19 21.29		



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #4 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-018

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	292	4.99	mg/kg	01.17.19 17.42		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.18.19 23.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.18.19 23.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.18.19 23.20	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.18.19 23.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	172	%	70-135	01.18.19 23.20	**	
o-Terphenyl	84-15-1	174	%	70-135	01.18.19 23.20	**	



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #4 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-018

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 14.30

Basis: Wet Weight

Seq Number: 3076361

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.18.19 21.48	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.18.19 21.48	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.18.19 21.48	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.18.19 21.48	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.18.19 21.48	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.18.19 21.48	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.18.19 21.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	01.18.19 21.48		
1,4-Difluorobenzene	540-36-3	116	%	70-130	01.18.19 21.48		



Certificate of Analytical Results 611308

Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #4 (2-2.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-019

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1710	25.0	mg/kg	01.17.19 17.48		5



Certificate of Analytical Results 611308

Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #4 (3-3.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-020

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6060	49.6	mg/kg	01.17.19 18.13		10



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #5 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-021

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	166	4.97	mg/kg	01.17.19 17.54		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.18.19 22.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	33.3	15.0	mg/kg	01.18.19 22.41		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.18.19 22.41	U	1
Total TPH	PHC635	33.3	15.0	mg/kg	01.18.19 22.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	01.18.19 22.41	
o-Terphenyl	84-15-1	89	%	70-135	01.18.19 22.41	



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #5 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-021

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 14.30

Basis: Wet Weight

Seq Number: 3076361

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.18.19 22.07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.18.19 22.07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.18.19 22.07	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.18.19 22.07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.18.19 22.07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.18.19 22.07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.18.19 22.07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.18.19 22.07		
1,4-Difluorobenzene	540-36-3	114	%	70-130	01.18.19 22.07		



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #5 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-022

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.0	4.98	mg/kg	01.17.19 18.19		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.19.19 02.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.19.19 02.17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.19.19 02.17	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.19.19 02.17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-135	01.19.19 02.17		
o-Terphenyl	84-15-1	87	%	70-135	01.19.19 02.17		



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #5 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-022

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 14.30

Basis: Wet Weight

Seq Number: 3076361

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.18.19 22.26	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.18.19 22.26	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.18.19 22.26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.18.19 22.26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.18.19 22.26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.18.19 22.26	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.18.19 22.26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	01.18.19 22.26		
1,4-Difluorobenzene	540-36-3	116	%	70-130	01.18.19 22.26		



Certificate of Analytical Results 611308

Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #5 (2-2.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-023

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	111	4.97	mg/kg	01.17.19 18.40		1



Certificate of Analytical Results 611308

Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #5 (3-3.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-024

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	128	5.00	mg/kg	01.17.19 18.47		1



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #6 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-025

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	464	4.96	mg/kg	01.17.19 18.53		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.18.19 21.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.18.19 21.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.18.19 21.41	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.18.19 21.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	92	%	70-135	01.18.19 21.41		
o-Terphenyl	84-15-1	94	%	70-135	01.18.19 21.41		



Certificate of Analytical Results 611308



Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #6 (0-1')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-025

Date Collected: 01.14.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 01.18.19 14.30

Basis: Wet Weight

Seq Number: 3076361

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.18.19 22.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.18.19 22.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.18.19 22.45	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.18.19 22.45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.18.19 22.45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.18.19 22.45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.18.19 22.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	01.18.19 22.45		
1,4-Difluorobenzene	540-36-3	115	%	70-130	01.18.19 22.45		



Certificate of Analytical Results 611308

Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: **AH #6 (1-1.5')**

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-026

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	243	4.98	mg/kg	01.17.19 18.59		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.18.19 15.00

Basis: Wet Weight

Seq Number: 3076398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.18.19 23.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.18.19 23.00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.18.19 23.00	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.18.19 23.00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	01.18.19 23.00		
o-Terphenyl	84-15-1	90	%	70-135	01.18.19 23.00		



Certificate of Analytical Results 611308

Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #6 (2-2.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-027

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	97.4	5.00	mg/kg	01.17.19 19.05		1



Certificate of Analytical Results 611308

Tetra Tech- Midland, Midland, TX

Cimarex Red Hills Unit 16

Sample Id: AH #6 (3-3.5')

Matrix: Soil

Date Received: 01.15.19 10.10

Lab Sample Id: 611308-028

Date Collected: 01.14.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.17.19 10.00

Basis: Wet Weight

Seq Number: 3076265

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	307	5.00	mg/kg	01.17.19 16.25		1



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

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland
Cimarex Red Hills Unit 16

Analytical Method: Chloride by EPA 300

Seq Number: 3076263

MB Sample Id: 7669892-1-BLK

Matrix: Solid

LCS Sample Id: 7669892-1-BKS

Prep Method: E300P

Date Prep: 01.17.19

LCSD Sample Id: 7669892-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	247	99	90-110	3	20	mg/kg	01.17.19 12:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3076265

MB Sample Id: 7669893-1-BLK

Matrix: Solid

LCS Sample Id: 7669893-1-BKS

Prep Method: E300P

Date Prep: 01.17.19

LCSD Sample Id: 7669893-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	262	105	244	98	90-110	7	20	mg/kg	01.17.19 16:12	

Analytical Method: Chloride by EPA 300

Seq Number: 3076263

Parent Sample Id: 611257-006

Matrix: Soil

MS Sample Id: 611257-006 S

Prep Method: E300P

Date Prep: 01.17.19

MSD Sample Id: 611257-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	393	248	609	87	609	87	90-110	0	20	mg/kg	01.17.19 12:51	X

Analytical Method: Chloride by EPA 300

Seq Number: 3076263

Parent Sample Id: 611257-007

Matrix: Soil

MS Sample Id: 611257-007 S

Prep Method: E300P

Date Prep: 01.17.19

MSD Sample Id: 611257-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	423	249	649	91	644	89	90-110	1	20	mg/kg	01.17.19 14:21	X

Analytical Method: Chloride by EPA 300

Seq Number: 3076265

Parent Sample Id: 611308-021

Matrix: Soil

MS Sample Id: 611308-021 S

Prep Method: E300P

Date Prep: 01.17.19

MSD Sample Id: 611308-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	166	249	409	98	412	99	90-110	1	20	mg/kg	01.17.19 18:00	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Red Hills Unit 16

Analytical Method: Chloride by EPA 300

Seq Number: 3076265

Parent Sample Id: 611308-028

Matrix: Soil

MS Sample Id: 611308-028 S

Prep Method: E300P

Date Prep: 01.17.19

MSD Sample Id: 611308-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	307	250	551	98	536	92	90-110	3	20	mg/kg	01.17.19 16:31	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3076398

MB Sample Id: 7670057-1-BLK

Matrix: Solid

LCS Sample Id: 7670057-1-BKS

Prep Method: TX1005P

Date Prep: 01.18.19

LCSD Sample Id: 7670057-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	834	83	840	84	70-135	1	20	mg/kg	01.18.19 21:01	
Diesel Range Organics (DRO)	<8.13	1000	929	93	929	93	70-135	0	20	mg/kg	01.18.19 21:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	91		128		131		70-135	%	01.18.19 21:01
o-Terphenyl	92		123		131		70-135	%	01.18.19 21:01

Analytical Method: TPH By SW8015 Mod

Seq Number: 3076398

Parent Sample Id: 611308-025

Matrix: Soil

MS Sample Id: 611308-025 S

Prep Method: TX1005P

Date Prep: 01.18.19

MSD Sample Id: 611308-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	895	90	901	90	70-135	1	20	mg/kg	01.18.19 22:01	
Diesel Range Organics (DRO)	<8.13	1000	983	98	990	99	70-135	1	20	mg/kg	01.18.19 22:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		129		70-135	%	01.18.19 22:01
o-Terphenyl	122		125		70-135	%	01.18.19 22:01

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Red Hills Unit 16

Analytical Method: BTEX by EPA 8021B

Seq Number: 3076360

MB Sample Id: 7670054-1-BLK

Matrix: Solid

LCS Sample Id: 7670054-1-BKS

Prep Method: SW5030B

Date Prep: 01.18.19

LCSD Sample Id: 7670054-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.111	111	70-130	6	35	mg/kg	01.18.19 14:31	
Toluene	<0.00200	0.100	0.0943	94	0.0957	96	70-130	1	35	mg/kg	01.18.19 14:31	
Ethylbenzene	<0.00200	0.100	0.121	121	0.115	115	70-130	5	35	mg/kg	01.18.19 14:31	
m,p-Xylenes	<0.00400	0.200	0.240	120	0.229	114	70-130	5	35	mg/kg	01.18.19 14:31	
o-Xylene	<0.00200	0.100	0.113	113	0.108	108	70-130	5	35	mg/kg	01.18.19 14:31	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		109		115		70-130	%	01.18.19 14:31
4-Bromofluorobenzene	100		112		104		70-130	%	01.18.19 14:31

Analytical Method: BTEX by EPA 8021B

Seq Number: 3076361

MB Sample Id: 7670055-1-BLK

Matrix: Solid

LCS Sample Id: 7670055-1-BKS

Prep Method: SW5030B

Date Prep: 01.18.19

LCSD Sample Id: 7670055-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.119	119	0.125	125	70-130	5	35	mg/kg	01.18.19 19:37	
Toluene	<0.000457	0.100	0.101	101	0.107	107	70-130	6	35	mg/kg	01.18.19 19:37	
Ethylbenzene	<0.000567	0.100	0.0924	92	0.0976	98	70-130	5	35	mg/kg	01.18.19 19:37	
m,p-Xylenes	<0.00102	0.201	0.184	92	0.194	97	70-130	5	35	mg/kg	01.18.19 19:37	
o-Xylene	<0.000346	0.100	0.0915	92	0.0963	96	70-130	5	35	mg/kg	01.18.19 19:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		111		110		70-130	%	01.18.19 19:37
4-Bromofluorobenzene	93		111		109		70-130	%	01.18.19 19:37

Analytical Method: BTEX by EPA 8021B

Seq Number: 3076360

Parent Sample Id: 611308-001

Matrix: Soil

MS Sample Id: 611308-001 S

Prep Method: SW5030B

Date Prep: 01.18.19

MSD Sample Id: 611308-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0834	84	0.0971	97	70-130	15	35	mg/kg	01.18.19 15:14	
Toluene	<0.00199	0.0996	0.0713	72	0.0846	85	70-130	17	35	mg/kg	01.18.19 15:14	
Ethylbenzene	<0.00199	0.0996	0.0853	86	0.0972	97	70-130	13	35	mg/kg	01.18.19 15:14	
m,p-Xylenes	<0.00398	0.199	0.164	82	0.189	95	70-130	14	35	mg/kg	01.18.19 15:14	
o-Xylene	<0.00199	0.0996	0.0801	80	0.0921	92	70-130	14	35	mg/kg	01.18.19 15:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	113		121		70-130	%	01.18.19 15:14
4-Bromofluorobenzene	107		111		70-130	%	01.18.19 15:14

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Tetra Tech- Midland
Cimarex Red Hills Unit 16

Analytical Method: BTEX by EPA 8021B

Seq Number: 3076361

Parent Sample Id: 611308-017

Matrix: Soil

MS Sample Id: 611308-017 S

Prep Method: SW5030B

Date Prep: 01.18.19

MSD Sample Id: 611308-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0996	0.110	110	0.114	114	70-130	4	35	mg/kg	01.18.19 20:15	
Toluene	<0.000454	0.0996	0.0877	88	0.0922	92	70-130	5	35	mg/kg	01.18.19 20:15	
Ethylbenzene	<0.000563	0.0996	0.0696	70	0.0758	76	70-130	9	35	mg/kg	01.18.19 20:15	
m,p-Xylenes	<0.00101	0.199	0.133	67	0.142	71	70-130	7	35	mg/kg	01.18.19 20:15	X
o-Xylene	<0.000343	0.0996	0.0685	69	0.0744	74	70-130	8	35	mg/kg	01.18.19 20:15	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		111		70-130	%	01.18.19 20:15
4-Bromofluorobenzene	110		110		70-130	%	01.18.19 20:15

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Tetra Tech, Inc.

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

Page 1 of 3

Client Name:						Cimarex
Site Manager:						Clair Gonzales
Project Name:						Red Hills Unit 16
Project Location: (county, state)						Lea Co, NM
Invoice to:						Project #:
						212C-MD-01557
Receiving Laboratory:						Sampler Signature:
Xenco						Conner Moehring
Comments:						Run deeper samples if GRO + DRO exceeds 1000 mg/Kg. Run deeper sample if benzene exceeds 10 mg/Kg or total BTEX exceeds 50 mg/Kg.
LAB # (LAB USE ONLY)						SAMPLE IDENTIFICATION
						SAMPLING YEAR: 2019
						DATE
						TIME
						MATRIX
						PRESERVATIVE METHOD
						# CONTAINERS
						FILTERED (Y/N)
AH #1 (0-1')						X
AH #1 (1-1.5')						X
AH #1 (2-2.5')						X
AH #1 (3-3.5')						X
AH #1 (4-4.5')						X
AH #1 (5-5.5')						X
AH #2 (0-1')						X
AH #2 (1-1.5')						X
AH #2 (2-2.5')						X
AH #2 (3-3.5')						X
Relinquished by:						Date: Time:
Received by:						Date: Time:
Retained by:						Date: Time:
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						[]

ORIGINAL COPY

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 3

Client Name: Cimarex		Site Manager: Clair Gonzales	
Project Name: Red Hills Unit 16			
Project Location: Lea Co, NM		Project #: 212C-MD-01557	
Invoice to: Cimarex - Christine Alderman		Sampler Signature: Conner Moehring	
Comments: Run deeper samples if GRO + DRO exceeds 1000 mg/Kg. Run deeper sample if benzene exceeds 10 mg/Kg or total BTEX exceeds 50 mg/Kg.			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None					
										YEAR: 2019				
AH #2 (4-4.5)		1/14/2019		X		X						1 N		
AH #3 (0-1')		1/14/2019		X		X						1 N	X	
AH #3 (1-1.5')		1/14/2019		X		X						1 N	X	
AH #3 (2-2.5')		1/14/2019		X		X						1 N		
AH #3 (3-3.5')		1/14/2019		X		X						1 N		
AH #3 (4-4.5')		1/14/2019		X		X						1 N		
AH #4 (0-1')		1/14/2019		X		X						1 N	X	
AH #4 (1-1.5')		1/14/2019		X		X						1 N	X	
AH #4 (2-2.5')		1/14/2019		X		X						1 N		
AH #4 (3-3.5')		1/14/2019		X		X						1 N		

Relinquished by: <i>Caerni Waples</i> 1/15/19	Date: 1/15/19	Time: 1010
Relinquished by: <i>Mark</i> 1/15/19	Date: 1/15/19	Time: 1010
Relinquished by: _____	Date: _____	Time: _____
Received by: _____	Date: _____	Time: _____

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

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	

ORIGINAL COPY

Tetra Tech, Inc.

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

Clair Gonzales

212C-MD-01557

Conner Moehring

Run deeper samples if GRO + DRO exceeds 1000 mg/Kg. Run deeper sample if benzene exceeds 10 mg/Kg or total BTEX exceeds 50 mg/Kg.

SAMPLE IDENTIFICATION

CONTAINERS

FILTERED (Y/N)

AH #5 (0-1')

$$\frac{1}{2}$$

2

$$\frac{1}{2}$$
 $\frac{1}{2}$

22

 $\frac{A}{Z}$

2

$$\frac{A}{Z}$$

--	--

[illegible]

1

STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ANALYSIS REQUEST
(Circle or Specify Method No.)

Hold



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 01/15/2019 10:10:00 AM

Work Order #: 611308

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)?	2.3
#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)?	N/A
#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:

Brianna Teel

Date: 01/15/2019

Checklist reviewed by:

Jessica Kramer

Date: 01/15/2019



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-18986-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Red Hills Unit #16-17H

For:

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

Attn: Conner Moehring

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

Authorized for release by:

9/21/2022 2:48:28 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: Red Hills Unit #16-17H

Laboratory Job ID: 880-18986-1
SDG: Lea Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Client Sample Results	7
Surrogate Summary	46
QC Sample Results	50
QC Association Summary	63
Lab Chronicle	75
Certification Summary	91
Method Summary	92
Sample Summary	93
Chain of Custody	94
Receipt Checklists	100

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Eurofins Midland

Definitions/Glossary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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

Case Narrative

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Job ID: 880-18986-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-18986-1**

Receipt

The samples were received on 9/8/2022 2:22 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-1 (1') (880-18986-48). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-34404 and analytical batch 880-34643 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34406 and analytical batch 880-34926 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: AH-10 (0-1') (880-18986-23). 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: AH-10 (3-3.5') (880-18986-26). 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: AH-11 (0-1') (880-18986-28). 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: AH-13 (0-1') (880-18986-34). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-13 (2-2.5') (880-18986-36), AH-14 (0-1') (880-18986-37), AH-14 (1-1.5') (880-18986-38) and AH-14 (2-2.5') (880-18986-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-34028/2-A) and (LCSD 880-34028/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-34028 and analytical batch 880-34046 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-9 (0-1') (880-18986-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: T-1 (4') (880-18986-51). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-34030 and analytical batch 880-34046 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Case Narrative

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Job ID: 880-18986-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-34030 and analytical batch 880-34046 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-34029/2-A) and (LCSD 880-34029/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: AH-12 (1-1.5') (880-18986-32). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34027 and analytical batch 880-34096 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: AH-15 (0-1') (880-18986-41), AH-15 (1-1.5') (880-18986-42), AH-15 (2-2.5') (880-18986-43), AH-16 (0-1') (880-18986-44), AH-16 (1-1.5') (880-18986-45), AH-16 (2-2.5') (880-18986-46), T-1 (0-1') (880-18986-47), T-1 (1') (880-18986-48), T-1 (2') (880-18986-49), T-1 (3') (880-18986-50), T-1 (4') (880-18986-51), T-1 (5') (880-18986-52), (880-18986-A-41-B MS), (880-18986-A-41-C MSD), (880-18986-A-51-A MS) and (880-18986-A-51-B MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34025 and 880-34025 and analytical batch 880-34094 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34026 and analytical batch 880-34095 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: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-1

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		09/13/22 13:38	09/17/22 02:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 02:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 02:53	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		09/13/22 13:38	09/17/22 02:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 02:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/22 13:38	09/17/22 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/13/22 13:38	09/17/22 02:53	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/13/22 13:38	09/17/22 02:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 09:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 09:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 09:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	09/08/22 15:32	09/09/22 09:58	1
o-Terphenyl	98		70 - 130	09/08/22 15:32	09/09/22 09:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124	F1	5.01		mg/Kg			09/11/22 05:02	1

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

Lab Sample ID: 880-18986-2

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 03:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 03:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 03:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/13/22 13:38	09/17/22 03:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 03:19	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/13/22 13:38	09/17/22 03:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/13/22 13:38	09/17/22 03:19	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/13/22 13:38	09/17/22 03:19	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-2

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 11:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 11:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 11:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				09/08/22 15:32	09/09/22 11:02	1
o-Terphenyl	100		70 - 130				09/08/22 15:32	09/09/22 11:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.02		mg/Kg			09/11/22 05:17	1

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

Lab Sample ID: 880-18986-3

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 03:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 03:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 03:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 03:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 03:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 03:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				09/13/22 13:38	09/17/22 03:45	1
1,4-Difluorobenzene (Surr)	107		70 - 130				09/13/22 13:38	09/17/22 03:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 11:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 11:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-3

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 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		09/08/22 15:32	09/09/22 11:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				09/08/22 15:32	09/09/22 11:24	1
o-Terphenyl	98		70 - 130				09/08/22 15:32	09/09/22 11:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.05		mg/Kg			09/11/22 05:22	1

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

Lab Sample ID: 880-18986-4

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 04:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 04:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 04:10	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/13/22 13:38	09/17/22 04:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 04:10	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/13/22 13:38	09/17/22 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/13/22 13:38	09/17/22 04:10	1
1,4-Difluorobenzene (Surr)	113		70 - 130				09/13/22 13:38	09/17/22 04:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/08/22 15:32	09/09/22 11:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/08/22 15:32	09/09/22 11:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/08/22 15:32	09/09/22 11:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				09/08/22 15:32	09/09/22 11:45	1
o-Terphenyl	105		70 - 130				09/08/22 15:32	09/09/22 11:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.6		5.00		mg/Kg			09/11/22 05:27	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-5

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 04:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 04:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 04:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 04:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 04:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/13/22 13:38	09/17/22 04:36	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/13/22 13:38	09/17/22 04:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/08/22 15:32	09/09/22 12:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/08/22 15:32	09/09/22 12:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/08/22 15:32	09/09/22 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	09/08/22 15:32	09/09/22 12:07	1
o-Terphenyl	103		70 - 130	09/08/22 15:32	09/09/22 12:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		4.99		mg/Kg			09/11/22 05:32	1

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

Lab Sample ID: 880-18986-6

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 05:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 05:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 05:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 05:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 05:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/13/22 13:38	09/17/22 05:02	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/13/22 13:38	09/17/22 05:02	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-6

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 12:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 12:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 12:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				09/08/22 15:32	09/09/22 12:28	1
o-Terphenyl	104		70 - 130				09/08/22 15:32	09/09/22 12:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		5.00		mg/Kg			09/11/22 05:46	1

Client Sample ID: H-7 (0-1')

Lab Sample ID: 880-18986-7

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:38	09/17/22 05:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:38	09/17/22 05:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:38	09/17/22 05:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/22 13:38	09/17/22 05:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:38	09/17/22 05:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/22 13:38	09/17/22 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				09/13/22 13:38	09/17/22 05:27	1
1,4-Difluorobenzene (Surr)	108		70 - 130				09/13/22 13:38	09/17/22 05:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 12:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 12:50	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: H-7 (0-1')

Lab Sample ID: 880-18986-7

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 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		09/08/22 15:32	09/09/22 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				09/08/22 15:32	09/09/22 12:50	1
o-Terphenyl	103		70 - 130				09/08/22 15:32	09/09/22 12:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.9		4.96		mg/Kg			09/11/22 05:51	1

Client Sample ID: H-8 (0-1')

Lab Sample ID: 880-18986-8

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:38	09/17/22 05:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:38	09/17/22 05:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:38	09/17/22 05:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/13/22 13:38	09/17/22 05:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:38	09/17/22 05:53	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/13/22 13:38	09/17/22 05:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				09/13/22 13:38	09/17/22 05:53	1
1,4-Difluorobenzene (Surr)	103		70 - 130				09/13/22 13:38	09/17/22 05:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 13:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 13:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				09/08/22 15:32	09/09/22 13:12	1
o-Terphenyl	105		70 - 130				09/08/22 15:32	09/09/22 13:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.0		4.97		mg/Kg			09/11/22 05:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: H-9 (0-1')

Lab Sample ID: 880-18986-9

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 06:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 06:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 06:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/22 13:38	09/17/22 06:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 06:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/22 13:38	09/17/22 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/13/22 13:38	09/17/22 06:18	1
1,4-Difluorobenzene (Surr)	110		70 - 130	09/13/22 13:38	09/17/22 06:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 13:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 13:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	09/08/22 15:32	09/09/22 13:33	1
o-Terphenyl	120		70 - 130	09/08/22 15:32	09/09/22 13:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		5.04		mg/Kg			09/11/22 06:01	1

Client Sample ID: H-10 (0-1')

Lab Sample ID: 880-18986-10

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 06:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 06:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 06:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 06:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 06:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/13/22 13:38	09/17/22 06:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/13/22 13:38	09/17/22 06:43	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: H-10 (0-1')

Lab Sample ID: 880-18986-10

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 13:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				09/08/22 15:32	09/09/22 13:55	1
o-Terphenyl	115		70 - 130				09/08/22 15:32	09/09/22 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.03		mg/Kg			09/11/22 06:06	1

Client Sample ID: H-11 (0-1')

Lab Sample ID: 880-18986-11

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 08:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 08:28	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 08:28	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/13/22 13:38	09/17/22 08:28	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 08:28	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/13/22 13:38	09/17/22 08:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				09/13/22 13:38	09/17/22 08:28	1
1,4-Difluorobenzene (Surr)	97		70 - 130				09/13/22 13:38	09/17/22 08:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 14:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 14:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: H-11 (0-1')

Lab Sample ID: 880-18986-11

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 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		09/08/22 15:32	09/09/22 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				09/08/22 15:32	09/09/22 14:39	1
o-Terphenyl	98		70 - 130				09/08/22 15:32	09/09/22 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117	F1	5.00		mg/Kg			09/11/22 06:11	1

Client Sample ID: H-12 (0-1')

Lab Sample ID: 880-18986-12

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 08:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 08:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 08:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/13/22 13:38	09/17/22 08:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 08:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/13/22 13:38	09/17/22 08:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				09/13/22 13:38	09/17/22 08:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/13/22 13:38	09/17/22 08:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 15:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 15:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				09/08/22 15:32	09/09/22 15:01	1
o-Terphenyl	113		70 - 130				09/08/22 15:32	09/09/22 15:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		4.97		mg/Kg			09/11/22 06:25	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: H-13 (0-1')

Lab Sample ID: 880-18986-13

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 09:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 09:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 09:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/22 13:38	09/17/22 09:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 09:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/22 13:38	09/17/22 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/13/22 13:38	09/17/22 09:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/13/22 13:38	09/17/22 09:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 15:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 15:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	09/08/22 15:32	09/09/22 15:22	1
o-Terphenyl	97		70 - 130	09/08/22 15:32	09/09/22 15:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		4.99		mg/Kg			09/11/22 06:30	1

Client Sample ID: AH-7 (0-1')

Lab Sample ID: 880-18986-14

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:38	09/17/22 09:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:38	09/17/22 09:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:38	09/17/22 09:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/22 13:38	09/17/22 09:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:38	09/17/22 09:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/22 13:38	09/17/22 09:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/13/22 13:38	09/17/22 09:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/13/22 13:38	09/17/22 09:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-7 (0-1')

Lab Sample ID: 880-18986-14

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 15:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 15:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				09/08/22 15:32	09/09/22 15:44	1
o-Terphenyl	108		70 - 130				09/08/22 15:32	09/09/22 15:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		4.99		mg/Kg			09/11/22 06:45	1

Client Sample ID: AH-7 (1-1.5')

Lab Sample ID: 880-18986-15

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:38	09/17/22 10:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:38	09/17/22 10:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:38	09/17/22 10:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/13/22 13:38	09/17/22 10:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:38	09/17/22 10:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/13/22 13:38	09/17/22 10:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				09/13/22 13:38	09/17/22 10:12	1
1,4-Difluorobenzene (Surr)	118		70 - 130				09/13/22 13:38	09/17/22 10:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 16:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 16:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-7 (1-1.5')

Lab Sample ID: 880-18986-15

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				09/08/22 15:32	09/09/22 16:05	1
o-Terphenyl	107		70 - 130				09/08/22 15:32	09/09/22 16:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.3		5.03		mg/Kg			09/11/22 06:49	1

Client Sample ID: AH-7 (2-2.5')

Lab Sample ID: 880-18986-16

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 10:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 10:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 10:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/22 13:38	09/17/22 10:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 10:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/22 13:38	09/17/22 10:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				09/13/22 13:38	09/17/22 10:38	1
1,4-Difluorobenzene (Surr)	113		70 - 130				09/13/22 13:38	09/17/22 10:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 16:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 16:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				09/08/22 15:32	09/09/22 16:27	1
o-Terphenyl	108		70 - 130				09/08/22 15:32	09/09/22 16:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		5.04		mg/Kg			09/11/22 06:54	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-8 (0-1')

Lab Sample ID: 880-18986-17

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 11:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 11:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 11:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 11:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 11:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/13/22 13:38	09/17/22 11:04	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/13/22 13:38	09/17/22 11:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 16:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 16:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	09/08/22 15:32	09/09/22 16:49	1
o-Terphenyl	117		70 - 130	09/08/22 15:32	09/09/22 16:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	336		5.00		mg/Kg			09/11/22 06:59	1

Client Sample ID: AH-8 (1-1.5')

Lab Sample ID: 880-18986-18

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 11:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 11:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 11:30	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/13/22 13:38	09/17/22 11:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/13/22 13:38	09/17/22 11:30	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/13/22 13:38	09/17/22 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/13/22 13:38	09/17/22 11:30	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/13/22 13:38	09/17/22 11:30	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-8 (1-1.5')

Lab Sample ID: 880-18986-18

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 17:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				09/08/22 15:32	09/09/22 17:10	1
o-Terphenyl	111		70 - 130				09/08/22 15:32	09/09/22 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.5		4.99		mg/Kg			09/11/22 07:04	1

Client Sample ID: AH-8 (2-2.5')

Lab Sample ID: 880-18986-19

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 11:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 11:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 11:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 11:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 11:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				09/13/22 13:38	09/17/22 11:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130				09/13/22 13:38	09/17/22 11:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 17:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 17:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-8 (2-2.5')

Lab Sample ID: 880-18986-19

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				09/08/22 15:32	09/09/22 17:32	1
o-Terphenyl	115		70 - 130				09/08/22 15:32	09/09/22 17:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.7		4.97		mg/Kg			09/11/22 07:09	1

Client Sample ID: AH-9 (0-1')

Lab Sample ID: 880-18986-20

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 12:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 12:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 12:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 12:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:38	09/17/22 12:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:38	09/17/22 12:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				09/13/22 13:38	09/17/22 12:21	1
1,4-Difluorobenzene (Surr)	100		70 - 130				09/13/22 13:38	09/17/22 12:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 17:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 17:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:32	09/09/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				09/08/22 15:32	09/09/22 17:54	1
o-Terphenyl	97		70 - 130				09/08/22 15:32	09/09/22 17:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.03		mg/Kg			09/11/22 07:14	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-9 (1-1.5')

Lab Sample ID: 880-18986-21

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 02:22	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		09/13/22 13:41	09/21/22 02:22	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		09/13/22 13:41	09/21/22 02:22	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399		mg/Kg		09/13/22 13:41	09/21/22 02:22	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		09/13/22 13:41	09/21/22 02:22	1
Xylenes, Total	<0.00399	U F2 F1	0.00399		mg/Kg		09/13/22 13:41	09/21/22 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/13/22 13:41	09/21/22 02:22	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/13/22 13:41	09/21/22 02:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 09:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 09:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 09:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	09/08/22 15:35	09/09/22 09:58	1
o-Terphenyl	88		70 - 130	09/08/22 15:35	09/09/22 09:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.2	F1	4.97		mg/Kg			09/11/22 07:53	1

Client Sample ID: AH-9 (2-2.5')

Lab Sample ID: 880-18986-22

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 02:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 02:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 02:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:41	09/21/22 02:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 02:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:41	09/21/22 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/13/22 13:41	09/21/22 02:49	1
1,4-Difluorobenzene (Surr)	77		70 - 130	09/13/22 13:41	09/21/22 02:49	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-9 (2-2.5')

Lab Sample ID: 880-18986-22

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 11:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 11:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 11:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				09/08/22 15:35	09/09/22 11:02	1
o-Terphenyl	97		70 - 130				09/08/22 15:35	09/09/22 11:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1		4.95		mg/Kg			09/11/22 08:08	1

Client Sample ID: AH-10 (0-1')

Lab Sample ID: 880-18986-23

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 03:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 03:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 03:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/22 13:41	09/21/22 03:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 03:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/22 13:41	09/21/22 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				09/13/22 13:41	09/21/22 03:15	1
1,4-Difluorobenzene (Surr)	78		70 - 130				09/13/22 13:41	09/21/22 03:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.5		50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 11:24	1
Diesel Range Organics (Over C10-C28)	75.5		50.0		mg/Kg		09/08/22 15:35	09/09/22 11:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-10 (0-1')

Lab Sample ID: 880-18986-23

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 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		09/08/22 15:35	09/09/22 11:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				09/08/22 15:35	09/09/22 11:24	1
o-Terphenyl	119		70 - 130				09/08/22 15:35	09/09/22 11:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	550		5.03		mg/Kg			09/11/22 08:12	1

Client Sample ID: AH-10 (1-1.5')

Lab Sample ID: 880-18986-24

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 03:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 03:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 03:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/13/22 13:41	09/21/22 03:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 03:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/13/22 13:41	09/21/22 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				09/13/22 13:41	09/21/22 03:41	1
1,4-Difluorobenzene (Surr)	81		70 - 130				09/13/22 13:41	09/21/22 03:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/08/22 15:35	09/09/22 11:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/08/22 15:35	09/09/22 11:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/08/22 15:35	09/09/22 11:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				09/08/22 15:35	09/09/22 11:45	1
o-Terphenyl	82		70 - 130				09/08/22 15:35	09/09/22 11:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		25.3		mg/Kg			09/11/22 08:17	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-10 (2-2.5')

Lab Sample ID: 880-18986-25

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 04:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 04:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 04:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/13/22 13:41	09/21/22 04:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 04:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/13/22 13:41	09/21/22 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	09/13/22 13:41	09/21/22 04:08	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/13/22 13:41	09/21/22 04:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/08/22 15:35	09/09/22 12:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/08/22 15:35	09/09/22 12:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/08/22 15:35	09/09/22 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	09/08/22 15:35	09/09/22 12:07	1
o-Terphenyl	78		70 - 130	09/08/22 15:35	09/09/22 12:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2640		25.3		mg/Kg			09/11/22 08:22	5

Client Sample ID: AH-10 (3-3.5')

Lab Sample ID: 880-18986-26

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 04:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 04:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 04:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/13/22 13:41	09/21/22 04:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 04:34	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/13/22 13:41	09/21/22 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	09/13/22 13:41	09/21/22 04:34	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/13/22 13:41	09/21/22 04:34	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-10 (3-3.5')

Lab Sample ID: 880-18986-26

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 12:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 12:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 12:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				09/08/22 15:35	09/09/22 12:28	1
o-Terphenyl	93		70 - 130				09/08/22 15:35	09/09/22 12:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2260		25.0		mg/Kg			09/11/22 08:37	5

Client Sample ID: AH-10 (4-4.5')

Lab Sample ID: 880-18986-27

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 05:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 05:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 05:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/22 13:41	09/21/22 05:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 05:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/22 13:41	09/21/22 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				09/13/22 13:41	09/21/22 05:01	1
1,4-Difluorobenzene (Surr)	85		70 - 130				09/13/22 13:41	09/21/22 05:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 12:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 12:50	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-10 (4-4.5')

Lab Sample ID: 880-18986-27

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 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		09/08/22 15:35	09/09/22 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				09/08/22 15:35	09/09/22 12:50	1
o-Terphenyl	91		70 - 130				09/08/22 15:35	09/09/22 12:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.0		4.99		mg/Kg			09/11/22 08:42	1

Client Sample ID: AH-11 (0-1')

Lab Sample ID: 880-18986-28

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 05:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 05:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 05:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:41	09/21/22 05:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 05:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:41	09/21/22 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				09/13/22 13:41	09/21/22 05:27	1
1,4-Difluorobenzene (Surr)	85		70 - 130				09/13/22 13:41	09/21/22 05:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 13:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 13:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				09/08/22 15:35	09/09/22 13:12	1
o-Terphenyl	114		70 - 130				09/08/22 15:35	09/09/22 13:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	291		5.02		mg/Kg			09/11/22 08:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-11 (1-1.5')

Lab Sample ID: 880-18986-29

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 05:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 05:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 05:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:41	09/21/22 05:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 05:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:41	09/21/22 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/13/22 13:41	09/21/22 05:53	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/13/22 13:41	09/21/22 05:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 13:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 13:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	09/08/22 15:35	09/09/22 13:33	1
o-Terphenyl	78		70 - 130	09/08/22 15:35	09/09/22 13:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.9		4.97		mg/Kg			09/11/22 08:51	1

Client Sample ID: AH-11 (2-2.5')

Lab Sample ID: 880-18986-30

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 06:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 06:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 06:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/22 13:41	09/21/22 06:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 06:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/22 13:41	09/21/22 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/13/22 13:41	09/21/22 06:20	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/13/22 13:41	09/21/22 06:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-11 (2-2.5')

Lab Sample ID: 880-18986-30

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 13:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				09/08/22 15:35	09/09/22 13:55	1
o-Terphenyl	79		70 - 130				09/08/22 15:35	09/09/22 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.3		4.96		mg/Kg			09/11/22 08:56	1

Client Sample ID: AH-12 (0-1')

Lab Sample ID: 880-18986-31

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 09:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 09:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 09:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/13/22 13:41	09/21/22 09:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 09:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/13/22 13:41	09/21/22 09:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				09/13/22 13:41	09/21/22 09:52	1
1,4-Difluorobenzene (Surr)	81		70 - 130				09/13/22 13:41	09/21/22 09:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 14:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 14:39	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-12 (0-1')

Lab Sample ID: 880-18986-31

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 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		09/08/22 15:35	09/09/22 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				09/08/22 15:35	09/09/22 14:39	1
o-Terphenyl	95		70 - 130				09/08/22 15:35	09/09/22 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	665	F1	25.2		mg/Kg			09/11/22 09:01	5

Client Sample ID: AH-12 (1-1.5')

Lab Sample ID: 880-18986-32

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 10:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 10:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 10:19	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/13/22 13:41	09/21/22 10:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 10:19	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/13/22 13:41	09/21/22 10:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				09/13/22 13:41	09/21/22 10:19	1
1,4-Difluorobenzene (Surr)	83		70 - 130				09/13/22 13:41	09/21/22 10:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 15:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 15:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				09/08/22 15:35	09/09/22 15:01	1
o-Terphenyl	67	S1-	70 - 130				09/08/22 15:35	09/09/22 15:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.0		4.98		mg/Kg			09/11/22 09:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-12 (2-2.5')

Lab Sample ID: 880-18986-33

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 10:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 10:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 10:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/13/22 13:41	09/21/22 10:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/13/22 13:41	09/21/22 10:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/13/22 13:41	09/21/22 10:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/13/22 13:41	09/21/22 10:45	1
1,4-Difluorobenzene (Surr)	77		70 - 130	09/13/22 13:41	09/21/22 10:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 15:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 15:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	09/08/22 15:35	09/09/22 15:22	1
o-Terphenyl	71		70 - 130	09/08/22 15:35	09/09/22 15:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.4		4.99		mg/Kg			09/11/22 09:20	1

Client Sample ID: AH-13 (0-1')

Lab Sample ID: 880-18986-34

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 11:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 11:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 11:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/22 13:41	09/21/22 11:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 11:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/22 13:41	09/21/22 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	09/13/22 13:41	09/21/22 11:12	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/13/22 13:41	09/21/22 11:12	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-13 (0-1')

Lab Sample ID: 880-18986-34

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	180		49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 15:44	1
Diesel Range Organics (Over C10-C28)	180		49.9		mg/Kg		09/08/22 15:35	09/09/22 15:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				09/08/22 15:35	09/09/22 15:44	1
o-Terphenyl	96		70 - 130				09/08/22 15:35	09/09/22 15:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	301		5.02		mg/Kg			09/11/22 09:35	1

Client Sample ID: AH-13 (1-1.5')

Lab Sample ID: 880-18986-35

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 11:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 11:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 11:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/22 13:41	09/21/22 11:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 11:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/22 13:41	09/21/22 11:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				09/13/22 13:41	09/21/22 11:38	1
1,4-Difluorobenzene (Surr)	72		70 - 130				09/13/22 13:41	09/21/22 11:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 16:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 16:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-13 (1-1.5')

Lab Sample ID: 880-18986-35

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				09/08/22 15:35	09/09/22 16:05	1
o-Terphenyl	86		70 - 130				09/08/22 15:35	09/09/22 16:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.4		5.04		mg/Kg			09/11/22 09:40	1

Client Sample ID: AH-13 (2-2.5')

Lab Sample ID: 880-18986-36

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 12:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 12:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 12:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:41	09/21/22 12:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 12:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:41	09/21/22 12:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				09/13/22 13:41	09/21/22 12:04	1
1,4-Difluorobenzene (Surr)	79		70 - 130				09/13/22 13:41	09/21/22 12:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 16:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 16:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				09/08/22 15:35	09/09/22 16:27	1
o-Terphenyl	71		70 - 130				09/08/22 15:35	09/09/22 16:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1		4.97		mg/Kg			09/11/22 09:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-14 (0-1')

Lab Sample ID: 880-18986-37

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 12:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 12:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 12:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/22 13:41	09/21/22 12:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 12:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/22 13:41	09/21/22 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	09/13/22 13:41	09/21/22 12:31	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/13/22 13:41	09/21/22 12:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.5		49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 16:49	1
Diesel Range Organics (Over C10-C28)	51.5		49.9		mg/Kg		09/08/22 15:35	09/09/22 16:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	09/08/22 15:35	09/09/22 16:49	1
o-Terphenyl	102		70 - 130	09/08/22 15:35	09/09/22 16:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.2		5.00		mg/Kg			09/11/22 09:57	1

Client Sample ID: AH-14 (1-1.5')

Lab Sample ID: 880-18986-38

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 12:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 12:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 12:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 13:41	09/21/22 12:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 13:41	09/21/22 12:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 13:41	09/21/22 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	09/13/22 13:41	09/21/22 12:57	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/13/22 13:41	09/21/22 12:57	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-14 (1-1.5')

Lab Sample ID: 880-18986-38

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 17:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				09/08/22 15:35	09/09/22 17:10	1
o-Terphenyl	88		70 - 130				09/08/22 15:35	09/09/22 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1970		25.2		mg/Kg			09/11/22 10:02	5

Client Sample ID: AH-14 (2-2.5')

Lab Sample ID: 880-18986-39

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 13:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 13:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 13:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/22 13:41	09/21/22 13:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 13:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/22 13:41	09/21/22 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				09/13/22 13:41	09/21/22 13:23	1
1,4-Difluorobenzene (Surr)	76		70 - 130				09/13/22 13:41	09/21/22 13:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 17:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 17:32	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-14 (2-2.5')

Lab Sample ID: 880-18986-39

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				09/08/22 15:35	09/09/22 17:32	1
o-Terphenyl	100		70 - 130				09/08/22 15:35	09/09/22 17:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3390		25.0		mg/Kg			09/11/22 09:52	5

Client Sample ID: AH-14 (3-3.5')

Lab Sample ID: 880-18986-40

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 13:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 13:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 13:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/22 13:41	09/21/22 13:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/22 13:41	09/21/22 13:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/22 13:41	09/21/22 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				09/13/22 13:41	09/21/22 13:50	1
1,4-Difluorobenzene (Surr)	84		70 - 130				09/13/22 13:41	09/21/22 13:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 17:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 17:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:35	09/09/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				09/08/22 15:35	09/09/22 17:54	1
o-Terphenyl	77		70 - 130				09/08/22 15:35	09/09/22 17:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.2		4.98		mg/Kg			09/11/22 10:07	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-15 (0-1')

Lab Sample ID: 880-18986-41

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 12:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 12:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 12:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 09:09	09/13/22 12:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 12:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 09:09	09/13/22 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/13/22 09:09	09/13/22 12:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/13/22 09:09	09/13/22 12:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

Method: 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 F2	50.0		mg/Kg		09/08/22 15:39	09/09/22 19:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/09/22 19:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/09/22 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	09/08/22 15:39	09/09/22 19:42	1
o-Terphenyl	105		70 - 130	09/08/22 15:39	09/09/22 19:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	438	F1	25.0		mg/Kg			09/11/22 13:23	5

Client Sample ID: AH-15 (1-1.5')

Lab Sample ID: 880-18986-42

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 12:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/13/22 09:09	09/13/22 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 12:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/13/22 09:09	09/13/22 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/13/22 09:09	09/13/22 12:56	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/13/22 09:09	09/13/22 12:56	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-15 (1-1.5')

Lab Sample ID: 880-18986-42

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

Method: 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		09/08/22 15:39	09/09/22 20:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:39	09/09/22 20:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:39	09/09/22 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				09/08/22 15:39	09/09/22 20:46	1
o-Terphenyl	104		70 - 130				09/08/22 15:39	09/09/22 20:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.02		mg/Kg			09/11/22 13:38	1

Client Sample ID: AH-15 (2-2.5')

Lab Sample ID: 880-18986-43

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/13/22 09:09	09/13/22 13:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/22 09:09	09/13/22 13:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/22 09:09	09/13/22 13:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/22 09:09	09/13/22 13:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/22 09:09	09/13/22 13:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/22 09:09	09/13/22 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				09/13/22 09:09	09/13/22 13:17	1
1,4-Difluorobenzene (Surr)	70		70 - 130				09/13/22 09:09	09/13/22 13:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

Method: 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		09/08/22 15:39	09/09/22 21:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/09/22 21:08	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-15 (2-2.5')

Lab Sample ID: 880-18986-43

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 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		09/08/22 15:39	09/09/22 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				09/08/22 15:39	09/09/22 21:08	1
o-Terphenyl	102		70 - 130				09/08/22 15:39	09/09/22 21:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.0		5.04		mg/Kg			09/11/22 13:43	1

Client Sample ID: AH-16 (0-1')

Lab Sample ID: 880-18986-44

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/13/22 09:09	09/13/22 13:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/13/22 09:09	09/13/22 13:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/13/22 09:09	09/13/22 13:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/13/22 09:09	09/13/22 13:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/13/22 09:09	09/13/22 13:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/13/22 09:09	09/13/22 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				09/13/22 09:09	09/13/22 13:37	1
1,4-Difluorobenzene (Surr)	87		70 - 130				09/13/22 09:09	09/13/22 13:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/12/22 09:55	1

Method: 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 *1	49.8		mg/Kg		09/08/22 15:39	09/09/22 21:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/08/22 15:39	09/09/22 21:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/08/22 15:39	09/09/22 21:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				09/08/22 15:39	09/09/22 21:30	1
o-Terphenyl	107		70 - 130				09/08/22 15:39	09/09/22 21:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	587		25.2		mg/Kg			09/11/22 13:48	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-16 (1-1.5')

Lab Sample ID: 880-18986-45

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 13:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 13:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 13:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 09:09	09/13/22 13:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 13:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 09:09	09/13/22 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/13/22 09:09	09/13/22 13:58	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/13/22 09:09	09/13/22 13:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/12/22 09:55	1

Method: 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 *1	49.8		mg/Kg		09/08/22 15:39	09/09/22 21:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/08/22 15:39	09/09/22 21:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/08/22 15:39	09/09/22 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	09/08/22 15:39	09/09/22 21:51	1
o-Terphenyl	105		70 - 130	09/08/22 15:39	09/09/22 21:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.3		5.00		mg/Kg			09/11/22 13:52	1

Client Sample ID: AH-16 (2-2.5')

Lab Sample ID: 880-18986-46

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 16:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 16:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 16:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 09:09	09/13/22 16:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 16:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 09:09	09/13/22 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/13/22 09:09	09/13/22 16:01	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/13/22 09:09	09/13/22 16:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-16 (2-2.5')

Lab Sample ID: 880-18986-46

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

Method: 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		09/08/22 15:39	09/09/22 22:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:39	09/09/22 22:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:39	09/09/22 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				09/08/22 15:39	09/09/22 22:13	1
o-Terphenyl	101		70 - 130				09/08/22 15:39	09/09/22 22:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.6		5.00		mg/Kg			09/11/22 14:07	1

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

Lab Sample ID: 880-18986-47

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/13/22 09:09	09/13/22 16:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/22 09:09	09/13/22 16:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/22 09:09	09/13/22 16:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/22 09:09	09/13/22 16:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/22 09:09	09/13/22 16:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/22 09:09	09/13/22 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/13/22 09:09	09/13/22 16:21	1
1,4-Difluorobenzene (Surr)	89		70 - 130				09/13/22 09:09	09/13/22 16:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

Method: 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		09/08/22 15:39	09/09/22 22:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/09/22 22:34	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-47

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 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		09/08/22 15:39	09/09/22 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				09/08/22 15:39	09/09/22 22:34	1
o-Terphenyl	103		70 - 130				09/08/22 15:39	09/09/22 22:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.0		4.96		mg/Kg			09/11/22 14:12	1

Client Sample ID: T-1 (1')

Lab Sample ID: 880-18986-48

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 16:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 16:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 16:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/13/22 09:09	09/13/22 16:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 16:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/13/22 09:09	09/13/22 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				09/13/22 09:09	09/13/22 16:42	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130				09/13/22 09:09	09/13/22 16:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

Method: 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		09/08/22 15:39	09/09/22 22:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:39	09/09/22 22:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:39	09/09/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				09/08/22 15:39	09/09/22 22:56	1
o-Terphenyl	118		70 - 130				09/08/22 15:39	09/09/22 22:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.3		4.98		mg/Kg			09/11/22 14:17	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: T-1 (2')

Lab Sample ID: 880-18986-49

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 17:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 17:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 17:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/22 09:09	09/13/22 17:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 17:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/22 09:09	09/13/22 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/13/22 09:09	09/13/22 17:02	1
1,4-Difluorobenzene (Surr)	74		70 - 130	09/13/22 09:09	09/13/22 17:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/12/22 09:55	1

Method: 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		09/08/22 15:39	09/09/22 23:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/08/22 15:39	09/09/22 23:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/22 15:39	09/09/22 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	09/08/22 15:39	09/09/22 23:17	1
o-Terphenyl	118		70 - 130	09/08/22 15:39	09/09/22 23:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		5.04		mg/Kg			09/11/22 14:22	1

Client Sample ID: T-1 (3')

Lab Sample ID: 880-18986-50

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 17:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 17:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 17:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/22 09:09	09/13/22 17:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/22 09:09	09/13/22 17:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/22 09:09	09/13/22 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/13/22 09:09	09/13/22 17:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/13/22 09:09	09/13/22 17:23	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: T-1 (3')

Lab Sample ID: 880-18986-50

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

Method: 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		09/08/22 15:39	09/09/22 23:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/09/22 23:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/09/22 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				09/08/22 15:39	09/09/22 23:39	1
o-Terphenyl	107		70 - 130				09/08/22 15:39	09/09/22 23:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.1		5.05		mg/Kg			09/11/22 14:26	1

Client Sample ID: T-1 (4')

Lab Sample ID: 880-18986-51

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 17:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 17:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 17:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/22 09:09	09/13/22 17:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 17:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/22 09:09	09/13/22 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/13/22 09:09	09/13/22 17:43	1
1,4-Difluorobenzene (Surr)	90		70 - 130				09/13/22 09:09	09/13/22 17:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

Method: 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		09/08/22 15:39	09/10/22 00:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/10/22 00:22	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: T-1 (4')

Lab Sample ID: 880-18986-51

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 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		09/08/22 15:39	09/10/22 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				09/08/22 15:39	09/10/22 00:22	1
o-Terphenyl	125		70 - 130				09/08/22 15:39	09/10/22 00:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.1	F1	5.00		mg/Kg			09/11/22 14:31	1

Client Sample ID: T-1 (5')

Lab Sample ID: 880-18986-52

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/13/22 09:09	09/13/22 18:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/13/22 09:09	09/13/22 18:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/13/22 09:09	09/13/22 18:03	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/13/22 09:09	09/13/22 18:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/13/22 09:09	09/13/22 18:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/13/22 09:09	09/13/22 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				09/13/22 09:09	09/13/22 18:03	1
1,4-Difluorobenzene (Surr)	85		70 - 130				09/13/22 09:09	09/13/22 18:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/13/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/22 09:55	1

Method: 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		09/08/22 15:39	09/10/22 00:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/10/22 00:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/10/22 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				09/08/22 15:39	09/10/22 00:44	1
o-Terphenyl	106		70 - 130				09/08/22 15:39	09/10/22 00:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.2		4.97		mg/Kg			09/11/22 14:46	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-18986-1	H-1 (0-1')	105	89
880-18986-1 MS	H-1 (0-1')	100	93
880-18986-1 MSD	H-1 (0-1')	107	100
880-18986-2	H-2 (0-1')	99	108
880-18986-3	H-3 (0-1')	103	107
880-18986-4	H-4 (0-1')	126	113
880-18986-5	H-5 (0-1')	99	102
880-18986-6	H-6 (0-1')	102	109
880-18986-7	H-7 (0-1')	106	108
880-18986-8	H-8 (0-1')	107	103
880-18986-9	H-9 (0-1')	115	110
880-18986-10	H-10 (0-1')	110	107
880-18986-11	H-11 (0-1')	104	97
880-18986-12	H-12 (0-1')	102	102
880-18986-13	H-13 (0-1')	100	102
880-18986-14	AH-7 (0-1')	101	101
880-18986-15	AH-7 (1-1.5')	115	118
880-18986-16	AH-7 (2-2.5')	109	113
880-18986-17	AH-8 (0-1')	108	109
880-18986-18	AH-8 (1-1.5')	109	102
880-18986-19	AH-8 (2-2.5')	112	104
880-18986-20	AH-9 (0-1')	105	100
880-18986-21	AH-9 (1-1.5')	108	79
880-18986-21 MS	AH-9 (1-1.5')	117	87
880-18986-21 MSD	AH-9 (1-1.5')	119	84
880-18986-22	AH-9 (2-2.5')	121	77
880-18986-23	AH-10 (0-1')	133 S1+	78
880-18986-24	AH-10 (1-1.5')	119	81
880-18986-25	AH-10 (2-2.5')	130	83
880-18986-26	AH-10 (3-3.5')	135 S1+	87
880-18986-27	AH-10 (4-4.5')	121	85
880-18986-28	AH-11 (0-1')	139 S1+	85
880-18986-29	AH-11 (1-1.5')	122	82
880-18986-30	AH-11 (2-2.5')	123	75
880-18986-31	AH-12 (0-1')	121	81
880-18986-32	AH-12 (1-1.5')	129	83
880-18986-33	AH-12 (2-2.5')	128	77
880-18986-34	AH-13 (0-1')	139 S1+	72
880-18986-35	AH-13 (1-1.5')	124	72
880-18986-36	AH-13 (2-2.5')	132 S1+	79
880-18986-37	AH-14 (0-1')	136 S1+	80
880-18986-38	AH-14 (1-1.5')	131 S1+	82
880-18986-39	AH-14 (2-2.5')	131 S1+	76
880-18986-40	AH-14 (3-3.5')	129	84
880-18986-41	AH-15 (0-1')	109	94
880-18986-42	AH-15 (1-1.5')	108	85
880-18986-43	AH-15 (2-2.5')	96	70
880-18986-44	AH-16 (0-1')	107	87
880-18986-45	AH-16 (1-1.5')	102	80

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Surrogate Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-18986-46	AH-16 (2-2.5')	106	92
880-18986-47	T-1 (0-1')	108	89
880-18986-48	T-1 (1')	92	67 S1-
880-18986-49	T-1 (2')	96	74
880-18986-50	T-1 (3')	109	90
880-18986-51	T-1 (4')	108	90
880-18986-52	T-1 (5')	106	85
890-2883-A-18-E MS	Matrix Spike	113	102
890-2883-A-18-F MSD	Matrix Spike Duplicate	119	107
LCS 880-34351/1-A	Lab Control Sample	113	106
LCS 880-34404/1-A	Lab Control Sample	103	103
LCS 880-34406/1-A	Lab Control Sample	119	81
LCSD 880-34351/2-A	Lab Control Sample Dup	113	106
LCSD 880-34404/2-A	Lab Control Sample Dup	105	97
LCSD 880-34406/2-A	Lab Control Sample Dup	116	90
MB 880-34351/5-A	Method Blank	99	90
MB 880-34404/5-A	Method Blank	72	89
MB 880-34406/5-A	Method Blank	85	77
MB 880-34643/8	Method Blank	74	87
MB 880-34926/8	Method Blank	84	78

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)
880-18986-1	H-1 (0-1')	106	98
880-18986-1 MS	H-1 (0-1')	89	82
880-18986-1 MSD	H-1 (0-1')	91	84
880-18986-2	H-2 (0-1')	108	100
880-18986-3	H-3 (0-1')	106	98
880-18986-4	H-4 (0-1')	115	105
880-18986-5	H-5 (0-1')	111	103
880-18986-6	H-6 (0-1')	110	104
880-18986-7	H-7 (0-1')	108	103
880-18986-8	H-8 (0-1')	111	105
880-18986-9	H-9 (0-1')	131 S1+	120
880-18986-10	H-10 (0-1')	129	115
880-18986-11	H-11 (0-1')	104	98
880-18986-12	H-12 (0-1')	125	113
880-18986-13	H-13 (0-1')	106	97
880-18986-14	AH-7 (0-1')	115	108
880-18986-15	AH-7 (1-1.5')	113	107
880-18986-16	AH-7 (2-2.5')	117	108
880-18986-17	AH-8 (0-1')	127	117
880-18986-18	AH-8 (1-1.5')	120	111

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Surrogate Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-18986-19	AH-8 (2-2.5')	124	115
880-18986-20	AH-9 (0-1')	103	97
880-18986-21	AH-9 (1-1.5')	87	88
880-18986-21 MS	AH-9 (1-1.5')	107	94
880-18986-21 MSD	AH-9 (1-1.5')	95	84
880-18986-22	AH-9 (2-2.5')	95	97
880-18986-23	AH-10 (0-1')	120	119
880-18986-24	AH-10 (1-1.5')	82	82
880-18986-25	AH-10 (2-2.5')	79	78
880-18986-26	AH-10 (3-3.5')	91	93
880-18986-27	AH-10 (4-4.5')	90	91
880-18986-28	AH-11 (0-1')	116	114
880-18986-29	AH-11 (1-1.5')	80	78
880-18986-30	AH-11 (2-2.5')	82	79
880-18986-31	AH-12 (0-1')	95	95
880-18986-32	AH-12 (1-1.5')	71	67 S1-
880-18986-33	AH-12 (2-2.5')	77	71
880-18986-34	AH-13 (0-1')	99	96
880-18986-35	AH-13 (1-1.5')	89	86
880-18986-36	AH-13 (2-2.5')	76	71
880-18986-37	AH-14 (0-1')	103	102
880-18986-38	AH-14 (1-1.5')	89	88
880-18986-39	AH-14 (2-2.5')	99	100
880-18986-40	AH-14 (3-3.5')	82	77
880-18986-41	AH-15 (0-1')	112	105
880-18986-41 MS	AH-15 (0-1')	96	87
880-18986-41 MSD	AH-15 (0-1')	127	103
880-18986-42	AH-15 (1-1.5')	116	104
880-18986-43	AH-15 (2-2.5')	113	102
880-18986-44	AH-16 (0-1')	115	107
880-18986-45	AH-16 (1-1.5')	115	105
880-18986-46	AH-16 (2-2.5')	111	101
880-18986-47	T-1 (0-1')	111	103
880-18986-48	T-1 (1')	128	118
880-18986-49	T-1 (2')	128	118
880-18986-50	T-1 (3')	112	107
880-18986-51	T-1 (4')	132 S1+	125
880-18986-52	T-1 (5')	112	106
LCS 880-34028/2-A	Lab Control Sample	151 S1+	133 S1+
LCS 880-34029/2-A	Lab Control Sample	129	132 S1+
LCS 880-34030/2-A	Lab Control Sample	110	111
LCSD 880-34028/3-A	Lab Control Sample Dup	156 S1+	137 S1+
LCSD 880-34029/3-A	Lab Control Sample Dup	140 S1+	142 S1+
LCSD 880-34030/3-A	Lab Control Sample Dup	110	114
MB 880-34028/1-A	Method Blank	132 S1+	126
MB 880-34029/1-A	Method Blank	108	115
MB 880-34030/1-A	Method Blank	115	114

Surrogate Legend

1CO = 1-Chlorooctane

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Surrogate Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H
OTPH = o-Terphenyl

Job ID: 880-18986-1
SDG: Lea Co, NM

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34351/5-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/22 09:09	09/13/22 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/22 09:09	09/13/22 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/13/22 09:09	09/13/22 11:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/13/22 09:09	09/13/22 11:13	1

Lab Sample ID: LCS 880-34351/1-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08589		mg/Kg		86	70 - 130
Toluene	0.100	0.07897		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08358		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1728		mg/Kg		86	70 - 130
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-34351/2-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08544		mg/Kg		85	70 - 130	1	35
Toluene	0.100	0.08090		mg/Kg		81	70 - 130	2	35
Ethylbenzene	0.100	0.08428		mg/Kg		84	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1741		mg/Kg		87	70 - 130	1	35
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-2883-A-18-E MS

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.07796		mg/Kg		78	70 - 130
Toluene	<0.00199	U	0.0998	0.07251		mg/Kg		73	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 890-2883-A-18-E MS

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.07915		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1613		mg/Kg		81	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09278		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2883-A-18-F MSD

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34351

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.08998		mg/Kg		90	70 - 130	14	35
Toluene	<0.00199	U	0.0996	0.08317		mg/Kg		84	70 - 130	14	35
Ethylbenzene	<0.00199	U	0.0996	0.09130		mg/Kg		92	70 - 130	14	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1882		mg/Kg		94	70 - 130	15	35
o-Xylene	<0.00199	U	0.0996	0.1079		mg/Kg		108	70 - 130	15	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-34404/5-A

Matrix: Solid

Analysis Batch: 34643

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34404

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 02:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 02:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 02:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/22 13:38	09/17/22 02:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:38	09/17/22 02:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/22 13:38	09/17/22 02:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	09/13/22 13:38	09/17/22 02:28	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/13/22 13:38	09/17/22 02:28	1

Lab Sample ID: LCS 880-34404/1-A

Matrix: Solid

Analysis Batch: 34643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08153		mg/Kg		82	70 - 130
Toluene	0.100	0.08025		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.09935		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1675		mg/Kg		84	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-34404/1-A

Matrix: Solid

Analysis Batch: 34643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08029		mg/Kg		80	70 - 130

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

Lab Sample ID: LCSD 880-34404/2-A

Matrix: Solid

Analysis Batch: 34643

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34404

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07879		mg/Kg		79	70 - 130	3	35
Toluene	0.100	0.07981		mg/Kg		80	70 - 130	1	35
Ethylbenzene	0.100	0.09842		mg/Kg		98	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1584		mg/Kg		79	70 - 130	6	35
o-Xylene	0.100	0.07924		mg/Kg		79	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-18986-1 MS

Matrix: Solid

Analysis Batch: 34643

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

Prep Type: Total/NA

Prep Batch: 34404

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0998	0.06910	F1	mg/Kg		69	70 - 130
Toluene	<0.00200	U	0.0998	0.07192		mg/Kg		72	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.08390		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1367	F1	mg/Kg		68	70 - 130
o-Xylene	<0.00200	U	0.0998	0.07578		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-18986-1 MSD

Matrix: Solid

Analysis Batch: 34643

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

Prep Type: Total/NA

Prep Batch: 34404

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	0.08043		mg/Kg		80	70 - 130	15	35
Toluene	<0.00200	U	0.101	0.07937		mg/Kg		78	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.101	0.09351		mg/Kg		93	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U F1	0.201	0.1521		mg/Kg		76	70 - 130	11	35
o-Xylene	<0.00200	U	0.101	0.07531		mg/Kg		75	70 - 130	1	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-1 MSD

Matrix: Solid

Analysis Batch: 34643

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

Prep Type: Total/NA

Prep Batch: 34404

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-34406/5-A

Matrix: Solid

Analysis Batch: 34926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34406

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 01:56	1	
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 01:56	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 01:56	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/22 13:41	09/21/22 01:56	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 13:41	09/21/22 01:56	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/22 13:41	09/21/22 01:56	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				09/13/22 13:41	09/21/22 01:56	1	
1,4-Difluorobenzene (Surr)	77		70 - 130				09/13/22 13:41	09/21/22 01:56	1	

Lab Sample ID: LCS 880-34406/1-A

Matrix: Solid

Analysis Batch: 34926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34406

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.09341		mg/Kg		93	70 - 130			
Toluene	0.100	0.08882		mg/Kg		89	70 - 130			
Ethylbenzene	0.100	0.08289		mg/Kg		83	70 - 130			
m-Xylene & p-Xylene	0.200	0.1667		mg/Kg		83	70 - 130			
o-Xylene	0.100	0.08306		mg/Kg		83	70 - 130			

	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	119		70 - 130							
1,4-Difluorobenzene (Surr)	81		70 - 130							

Lab Sample ID: LCSD 880-34406/2-A

Matrix: Solid

Analysis Batch: 34926

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34406

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09954		mg/Kg		100	70 - 130	6	35	
Toluene	0.100	0.08770		mg/Kg		88	70 - 130	1	35	
Ethylbenzene	0.100	0.08209		mg/Kg		82	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1643		mg/Kg		82	70 - 130	1	35	
o-Xylene	0.100	0.08165		mg/Kg		82	70 - 130	2	35	

	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	116		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-34406/2-A

Matrix: Solid

Analysis Batch: 34926

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34406

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-18986-21 MS

Matrix: Solid

Analysis Batch: 34926

Client Sample ID: AH-9 (1-1.5')

Prep Type: Total/NA

Prep Batch: 34406

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.0998	0.09021		mg/Kg		90	70 - 130
Toluene	<0.00200	U F1	0.0998	0.07633		mg/Kg		76	70 - 130
Ethylbenzene	<0.00200	U F2 F1	0.0998	0.06423	F1	mg/Kg		64	70 - 130
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.200	0.1406		mg/Kg		70	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.07209		mg/Kg		72	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-18986-21 MSD

Matrix: Solid

Analysis Batch: 34926

Client Sample ID: AH-9 (1-1.5')

Prep Type: Total/NA

Prep Batch: 34406

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.07624		mg/Kg		77	70 - 130	17	35
Toluene	<0.00200	U F1	0.0996	0.06592	F1	mg/Kg		66	70 - 130	15	35
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.04061	F2 F1	mg/Kg		41	70 - 130	45	35
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.199	0.05243	F2 F1	mg/Kg		26	70 - 130	91	35
o-Xylene	<0.00200	U F1	0.0996	0.06749	F1	mg/Kg		68	70 - 130	7	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: MB 880-34643/8

Matrix: Solid

Analysis Batch: 34643

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			09/16/22 13:14	1	
Toluene	<0.00200	U	0.00200		mg/Kg			09/16/22 13:14	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			09/16/22 13:14	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			09/16/22 13:14	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg			09/16/22 13:14	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			09/16/22 13:14	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	74		70 - 130		09/16/22 13:14	1				
1,4-Difluorobenzene (Surr)	87		70 - 130		09/16/22 13:14	1				

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-34926/8

Matrix: Solid

Analysis Batch: 34926

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			09/20/22 12:26	1
Toluene	<0.00200	U	0.00200		mg/Kg			09/20/22 12:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			09/20/22 12:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			09/20/22 12:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			09/20/22 12:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			09/20/22 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130		09/20/22 12:26	1
1,4-Difluorobenzene (Surr)	78		70 - 130		09/20/22 12:26	1

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

Lab Sample ID: MB 880-34028/1-A

Matrix: Solid

Analysis Batch: 34046

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 08:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 08:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:32	09/09/22 08:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	09/08/22 15:32	09/09/22 08:53	1
o-Terphenyl	126		70 - 130	09/08/22 15:32	09/09/22 08:53	1

Lab Sample ID: LCS 880-34028/2-A

Matrix: Solid

Analysis Batch: 34046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	977.9		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	151	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: LCSD 880-34028/3-A

Matrix: Solid

Analysis Batch: 34046

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34028

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1093		mg/Kg		109	70 - 130	11	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-34028/3-A

Matrix: Solid

Analysis Batch: 34046

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34028

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	1070		mg/Kg		107	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	156	S1+	70 - 130						
o-Terphenyl	137	S1+	70 - 130						

Lab Sample ID: 880-18986-1 MS

Matrix: Solid

Analysis Batch: 34046

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

Prep Type: Total/NA

Prep Batch: 34028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	872.9		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1057		mg/Kg		104	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	82		70 - 130								

Lab Sample ID: 880-18986-1 MSD

Matrix: Solid

Analysis Batch: 34046

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

Prep Type: Total/NA

Prep Batch: 34028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	891.6		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1074		mg/Kg		106	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	84		70 - 130								

Lab Sample ID: MB 880-34029/1-A

Matrix: Solid

Analysis Batch: 34048

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 08:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 08:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:35	09/09/22 08:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				09/08/22 15:35	09/09/22 08:53	1
o-Terphenyl	115		70 - 130				09/08/22 15:35	09/09/22 08:53	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-34029/2-A

Matrix: Solid

Analysis Batch: 34048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34029

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	858.6		mg/Kg		86		70 - 130	
Diesel Range Organics (Over C10-C28)			1000	878.0		mg/Kg		88		70 - 130	

Lab Sample ID: LCSD 880-34029/3-A

Matrix: Solid

Analysis Batch: 34048

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34029

			Spike	LCSD	LCSD				%Rec			RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1020		mg/Kg		102	70 - 130	17	20	
Diesel Range Organics (Over C10-C28)			1000	999.6		mg/Kg		100	70 - 130	13	20	
			LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	140	S1+	70 - 130									
o-Terphenyl	142	S1+	70 - 130									

Lab Sample ID: 880-18986-21 MS

Matrix: Solid

Analysis Batch: 34048

Client Sample ID: AH-9 (1-1.5')

Prep Type: Total/NA

Prep Batch: 34029

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	821.5		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1055		mg/Kg		106	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	94		70 - 130								

Lab Sample ID: 880-18986-21 MSD

Matrix: Solid

Analysis Batch: 34048

Client Sample ID: AH-9 (1-1.5')

Prep Type: Total/NA

Prep Batch: 34029

	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	996	989.2		mg/Kg		98	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	941.0		mg/Kg		94	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	95		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-21 MSD

Matrix: Solid

Analysis Batch: 34048

Client Sample ID: AH-9 (1-1.5')

Prep Type: Total/NA

Prep Batch: 34029

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

Lab Sample ID: MB 880-34030/1-A

Matrix: Solid

Analysis Batch: 34046

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34030

	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		09/08/22 15:39	09/09/22 18:37	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/09/22 18:37	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/22 15:39	09/09/22 18:37	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	115		70 - 130				09/08/22 15:39	09/09/22 18:37	1	
<i>o</i> -Terphenyl	114		70 - 130				09/08/22 15:39	09/09/22 18:37	1	

Lab Sample ID: LCS 880-34030/2-A

Matrix: Solid

Analysis Batch: 34046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34030

		Spike	LCS	LCS				%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	820.5		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	841.9		mg/Kg		84	70 - 130		
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	110		70 - 130							
<i>o</i> -Terphenyl	111		70 - 130							

Lab Sample ID: LCSD 880-34030/3-A

Matrix: Solid

Analysis Batch: 34046

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34030

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1009	*1	mg/Kg		101	70 - 130	21	20
Diesel Range Organics (Over C10-C28)			1000	877.9		mg/Kg		88	70 - 130	4	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	110		70 - 130								
o-Terphenyl	114		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-41 MS

Matrix: Solid

Analysis Batch: 34046

Client Sample ID: AH-15 (0-1')

Prep Type: Total/NA

Prep Batch: 34030

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 F2	999	865.6		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	986.2		mg/Kg		96	70 - 130		

Lab Sample ID: 880-18986-41 MSD

Matrix: Solid

Analysis Batch: 34046

Client Sample ID: AH-15 (0-1')

Prep Type: Total/NA

Prep Batch: 34030

	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 *1 F2	996	1148	F2	mg/Kg		115	70 - 130	28	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1143		mg/Kg		112	70 - 130	15	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34025/1-A

Matrix: Solid

Analysis Batch: 34094

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/11/22 04:48	1

Lab Sample ID: LCS 880-34025/2-A

Matrix: Solid

Analysis Batch: 34094

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.6		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-34025/3-A

Matrix: Solid

Analysis Batch: 34094

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	262.2		mg/Kg		105	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-18986-1 MS

Matrix: Solid

Analysis Batch: 34094

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	124	F1	251	405.3	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-18986-1 MSD

Matrix: Solid

Analysis Batch: 34094

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	124	F1	251	405.4	F1	mg/Kg		113	90 - 110	0	20

Lab Sample ID: 880-18986-11 MS

Matrix: Solid

Analysis Batch: 34094

Client Sample ID: H-11 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	117	F1	250	409.2	F1	mg/Kg		117	90 - 110		

Lab Sample ID: 880-18986-11 MSD

Matrix: Solid

Analysis Batch: 34094

Client Sample ID: H-11 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	117	F1	250	409.4	F1	mg/Kg		117	90 - 110	0	20

Lab Sample ID: MB 880-34026/1-A

Matrix: Solid

Analysis Batch: 34095

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/11/22 07:39	1

Lab Sample ID: LCS 880-34026/2-A

Matrix: Solid

Analysis Batch: 34095

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	260.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-34026/3-A

Matrix: Solid

Analysis Batch: 34095

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	260.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-18986-21 MS

Matrix: Solid

Analysis Batch: 34095

Client Sample ID: AH-9 (1-1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	55.2	F1	249	341.5	F1	mg/Kg		115	90 - 110		

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-18986-21 MSD

Matrix: Solid

Analysis Batch: 34095

Client Sample ID: AH-9 (1-1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	55.2	F1	249	342.3	F1	mg/Kg		116	90 - 110	0	20

Lab Sample ID: 880-18986-31 MS

Matrix: Solid

Analysis Batch: 34095

Client Sample ID: AH-12 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	665	F1	1260	2099	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-18986-31 MSD

Matrix: Solid

Analysis Batch: 34095

Client Sample ID: AH-12 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	665	F1	1260	2096	F1	mg/Kg		114	90 - 110	0	20

Lab Sample ID: MB 880-34027/1-A

Matrix: Solid

Analysis Batch: 34096

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/11/22 13:09	1

Lab Sample ID: LCS 880-34027/2-A

Matrix: Solid

Analysis Batch: 34096

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	252.6		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-34027/3-A

Matrix: Solid

Analysis Batch: 34096

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	253.6		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-18986-41 MS

Matrix: Solid

Analysis Batch: 34096

Client Sample ID: AH-15 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	438	F1	1250	1831	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-18986-41 MSD

Matrix: Solid

Analysis Batch: 34096

Client Sample ID: AH-15 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	438	F1	1250	1832	F1	mg/Kg		112	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-18986-51 MS

Matrix: Solid

Analysis Batch: 34096

Client Sample ID: T-1 (4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	68.1	F1	250	349.8	F1	mg/Kg		113	90 - 110

Lab Sample ID: 880-18986-51 MSD

Matrix: Solid

Analysis Batch: 34096

Client Sample ID: T-1 (4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	68.1	F1	250	348.9	F1	mg/Kg		112	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 34340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-41	AH-15 (0-1')	Total/NA	Solid	8021B	34351
880-18986-42	AH-15 (1-1.5')	Total/NA	Solid	8021B	34351
880-18986-43	AH-15 (2-2.5')	Total/NA	Solid	8021B	34351
880-18986-44	AH-16 (0-1')	Total/NA	Solid	8021B	34351
880-18986-45	AH-16 (1-1.5')	Total/NA	Solid	8021B	34351
880-18986-46	AH-16 (2-2.5')	Total/NA	Solid	8021B	34351
880-18986-47	T-1 (0-1')	Total/NA	Solid	8021B	34351
880-18986-48	T-1 (1')	Total/NA	Solid	8021B	34351
880-18986-49	T-1 (2')	Total/NA	Solid	8021B	34351
880-18986-50	T-1 (3')	Total/NA	Solid	8021B	34351
880-18986-51	T-1 (4')	Total/NA	Solid	8021B	34351
880-18986-52	T-1 (5')	Total/NA	Solid	8021B	34351
MB 880-34351/5-A	Method Blank	Total/NA	Solid	8021B	34351
LCS 880-34351/1-A	Lab Control Sample	Total/NA	Solid	8021B	34351
LCSD 880-34351/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34351
890-2883-A-18-E MS	Matrix Spike	Total/NA	Solid	8021B	34351
890-2883-A-18-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34351

Prep Batch: 34351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-41	AH-15 (0-1')	Total/NA	Solid	5035	
880-18986-42	AH-15 (1-1.5')	Total/NA	Solid	5035	
880-18986-43	AH-15 (2-2.5')	Total/NA	Solid	5035	
880-18986-44	AH-16 (0-1')	Total/NA	Solid	5035	
880-18986-45	AH-16 (1-1.5')	Total/NA	Solid	5035	
880-18986-46	AH-16 (2-2.5')	Total/NA	Solid	5035	
880-18986-47	T-1 (0-1')	Total/NA	Solid	5035	
880-18986-48	T-1 (1')	Total/NA	Solid	5035	
880-18986-49	T-1 (2')	Total/NA	Solid	5035	
880-18986-50	T-1 (3')	Total/NA	Solid	5035	
880-18986-51	T-1 (4')	Total/NA	Solid	5035	
880-18986-52	T-1 (5')	Total/NA	Solid	5035	
MB 880-34351/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34351/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34351/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2883-A-18-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2883-A-18-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 34404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-1	H-1 (0-1')	Total/NA	Solid	5035	
880-18986-2	H-2 (0-1')	Total/NA	Solid	5035	
880-18986-3	H-3 (0-1')	Total/NA	Solid	5035	
880-18986-4	H-4 (0-1')	Total/NA	Solid	5035	
880-18986-5	H-5 (0-1')	Total/NA	Solid	5035	
880-18986-6	H-6 (0-1')	Total/NA	Solid	5035	
880-18986-7	H-7 (0-1')	Total/NA	Solid	5035	
880-18986-8	H-8 (0-1')	Total/NA	Solid	5035	
880-18986-9	H-9 (0-1')	Total/NA	Solid	5035	
880-18986-10	H-10 (0-1')	Total/NA	Solid	5035	
880-18986-11	H-11 (0-1')	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

GC VOA (Continued)

Prep Batch: 34404 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-12	H-12 (0-1')	Total/NA	Solid	5035	
880-18986-13	H-13 (0-1')	Total/NA	Solid	5035	
880-18986-14	AH-7 (0-1')	Total/NA	Solid	5035	
880-18986-15	AH-7 (1-1.5')	Total/NA	Solid	5035	
880-18986-16	AH-7 (2-2.5')	Total/NA	Solid	5035	
880-18986-17	AH-8 (0-1')	Total/NA	Solid	5035	
880-18986-18	AH-8 (1-1.5')	Total/NA	Solid	5035	
880-18986-19	AH-8 (2-2.5')	Total/NA	Solid	5035	
880-18986-20	AH-9 (0-1')	Total/NA	Solid	5035	
MB 880-34404/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34404/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34404/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18986-1 MS	H-1 (0-1')	Total/NA	Solid	5035	
880-18986-1 MSD	H-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 34405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-1	H-1 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-2	H-2 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-3	H-3 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-4	H-4 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-5	H-5 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-6	H-6 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-7	H-7 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-8	H-8 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-9	H-9 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-10	H-10 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-11	H-11 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-12	H-12 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-13	H-13 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-14	AH-7 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-15	AH-7 (1-1.5')	Total/NA	Solid	Total BTEX	
880-18986-16	AH-7 (2-2.5')	Total/NA	Solid	Total BTEX	
880-18986-17	AH-8 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-18	AH-8 (1-1.5')	Total/NA	Solid	Total BTEX	
880-18986-19	AH-8 (2-2.5')	Total/NA	Solid	Total BTEX	
880-18986-20	AH-9 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-21	AH-9 (1-1.5')	Total/NA	Solid	Total BTEX	
880-18986-22	AH-9 (2-2.5')	Total/NA	Solid	Total BTEX	
880-18986-23	AH-10 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-24	AH-10 (1-1.5')	Total/NA	Solid	Total BTEX	
880-18986-25	AH-10 (2-2.5')	Total/NA	Solid	Total BTEX	
880-18986-26	AH-10 (3-3.5')	Total/NA	Solid	Total BTEX	
880-18986-27	AH-10 (4-4.5')	Total/NA	Solid	Total BTEX	
880-18986-28	AH-11 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-29	AH-11 (1-1.5')	Total/NA	Solid	Total BTEX	
880-18986-30	AH-11 (2-2.5')	Total/NA	Solid	Total BTEX	
880-18986-31	AH-12 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-32	AH-12 (1-1.5')	Total/NA	Solid	Total BTEX	
880-18986-33	AH-12 (2-2.5')	Total/NA	Solid	Total BTEX	
880-18986-34	AH-13 (0-1')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

GC VOA (Continued)

Analysis Batch: 34405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-35	AH-13 (1-1.5')	Total/NA	Solid	Total BTEX	
880-18986-36	AH-13 (2-2.5')	Total/NA	Solid	Total BTEX	
880-18986-37	AH-14 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-38	AH-14 (1-1.5')	Total/NA	Solid	Total BTEX	
880-18986-39	AH-14 (2-2.5')	Total/NA	Solid	Total BTEX	
880-18986-40	AH-14 (3-3.5')	Total/NA	Solid	Total BTEX	
880-18986-41	AH-15 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-42	AH-15 (1-1.5')	Total/NA	Solid	Total BTEX	
880-18986-43	AH-15 (2-2.5')	Total/NA	Solid	Total BTEX	
880-18986-44	AH-16 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-45	AH-16 (1-1.5')	Total/NA	Solid	Total BTEX	
880-18986-46	AH-16 (2-2.5')	Total/NA	Solid	Total BTEX	
880-18986-47	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-18986-48	T-1 (1')	Total/NA	Solid	Total BTEX	
880-18986-49	T-1 (2')	Total/NA	Solid	Total BTEX	
880-18986-50	T-1 (3')	Total/NA	Solid	Total BTEX	
880-18986-51	T-1 (4')	Total/NA	Solid	Total BTEX	
880-18986-52	T-1 (5')	Total/NA	Solid	Total BTEX	

Prep Batch: 34406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-21	AH-9 (1-1.5')	Total/NA	Solid	5035	
880-18986-22	AH-9 (2-2.5')	Total/NA	Solid	5035	
880-18986-23	AH-10 (0-1')	Total/NA	Solid	5035	
880-18986-24	AH-10 (1-1.5')	Total/NA	Solid	5035	
880-18986-25	AH-10 (2-2.5')	Total/NA	Solid	5035	
880-18986-26	AH-10 (3-3.5')	Total/NA	Solid	5035	
880-18986-27	AH-10 (4-4.5')	Total/NA	Solid	5035	
880-18986-28	AH-11 (0-1')	Total/NA	Solid	5035	
880-18986-29	AH-11 (1-1.5')	Total/NA	Solid	5035	
880-18986-30	AH-11 (2-2.5')	Total/NA	Solid	5035	
880-18986-31	AH-12 (0-1')	Total/NA	Solid	5035	
880-18986-32	AH-12 (1-1.5')	Total/NA	Solid	5035	
880-18986-33	AH-12 (2-2.5')	Total/NA	Solid	5035	
880-18986-34	AH-13 (0-1')	Total/NA	Solid	5035	
880-18986-35	AH-13 (1-1.5')	Total/NA	Solid	5035	
880-18986-36	AH-13 (2-2.5')	Total/NA	Solid	5035	
880-18986-37	AH-14 (0-1')	Total/NA	Solid	5035	
880-18986-38	AH-14 (1-1.5')	Total/NA	Solid	5035	
880-18986-39	AH-14 (2-2.5')	Total/NA	Solid	5035	
880-18986-40	AH-14 (3-3.5')	Total/NA	Solid	5035	
MB 880-34406/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34406/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34406/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18986-21 MS	AH-9 (1-1.5')	Total/NA	Solid	5035	
880-18986-21 MSD	AH-9 (1-1.5')	Total/NA	Solid	5035	

Analysis Batch: 34643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-1	H-1 (0-1')	Total/NA	Solid	8021B	34404
880-18986-2	H-2 (0-1')	Total/NA	Solid	8021B	34404

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

GC VOA (Continued)

Analysis Batch: 34643 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-3	H-3 (0-1')	Total/NA	Solid	8021B	34404
880-18986-4	H-4 (0-1')	Total/NA	Solid	8021B	34404
880-18986-5	H-5 (0-1')	Total/NA	Solid	8021B	34404
880-18986-6	H-6 (0-1')	Total/NA	Solid	8021B	34404
880-18986-7	H-7 (0-1')	Total/NA	Solid	8021B	34404
880-18986-8	H-8 (0-1')	Total/NA	Solid	8021B	34404
880-18986-9	H-9 (0-1')	Total/NA	Solid	8021B	34404
880-18986-10	H-10 (0-1')	Total/NA	Solid	8021B	34404
880-18986-11	H-11 (0-1')	Total/NA	Solid	8021B	34404
880-18986-12	H-12 (0-1')	Total/NA	Solid	8021B	34404
880-18986-13	H-13 (0-1')	Total/NA	Solid	8021B	34404
880-18986-14	AH-7 (0-1')	Total/NA	Solid	8021B	34404
880-18986-15	AH-7 (1-1.5')	Total/NA	Solid	8021B	34404
880-18986-16	AH-7 (2-2.5')	Total/NA	Solid	8021B	34404
880-18986-17	AH-8 (0-1')	Total/NA	Solid	8021B	34404
880-18986-18	AH-8 (1-1.5')	Total/NA	Solid	8021B	34404
880-18986-19	AH-8 (2-2.5')	Total/NA	Solid	8021B	34404
880-18986-20	AH-9 (0-1')	Total/NA	Solid	8021B	34404
MB 880-34404/5-A	Method Blank	Total/NA	Solid	8021B	34404
MB 880-34643/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-34404/1-A	Lab Control Sample	Total/NA	Solid	8021B	34404
LCSD 880-34404/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34404
880-18986-1 MS	H-1 (0-1')	Total/NA	Solid	8021B	34404
880-18986-1 MSD	H-1 (0-1')	Total/NA	Solid	8021B	34404

Analysis Batch: 34926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-21	AH-9 (1-1.5')	Total/NA	Solid	8021B	34406
880-18986-22	AH-9 (2-2.5')	Total/NA	Solid	8021B	34406
880-18986-23	AH-10 (0-1')	Total/NA	Solid	8021B	34406
880-18986-24	AH-10 (1-1.5')	Total/NA	Solid	8021B	34406
880-18986-25	AH-10 (2-2.5')	Total/NA	Solid	8021B	34406
880-18986-26	AH-10 (3-3.5')	Total/NA	Solid	8021B	34406
880-18986-27	AH-10 (4-4.5')	Total/NA	Solid	8021B	34406
880-18986-28	AH-11 (0-1')	Total/NA	Solid	8021B	34406
880-18986-29	AH-11 (1-1.5')	Total/NA	Solid	8021B	34406
880-18986-30	AH-11 (2-2.5')	Total/NA	Solid	8021B	34406
880-18986-31	AH-12 (0-1')	Total/NA	Solid	8021B	34406
880-18986-32	AH-12 (1-1.5')	Total/NA	Solid	8021B	34406
880-18986-33	AH-12 (2-2.5')	Total/NA	Solid	8021B	34406
880-18986-34	AH-13 (0-1')	Total/NA	Solid	8021B	34406
880-18986-35	AH-13 (1-1.5')	Total/NA	Solid	8021B	34406
880-18986-36	AH-13 (2-2.5')	Total/NA	Solid	8021B	34406
880-18986-37	AH-14 (0-1')	Total/NA	Solid	8021B	34406
880-18986-38	AH-14 (1-1.5')	Total/NA	Solid	8021B	34406
880-18986-39	AH-14 (2-2.5')	Total/NA	Solid	8021B	34406
880-18986-40	AH-14 (3-3.5')	Total/NA	Solid	8021B	34406
MB 880-34406/5-A	Method Blank	Total/NA	Solid	8021B	34406
MB 880-34926/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-34406/1-A	Lab Control Sample	Total/NA	Solid	8021B	34406
LCSD 880-34406/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34406

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

GC VOA (Continued)

Analysis Batch: 34926 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-21 MS	AH-9 (1-1.5')	Total/NA	Solid	8021B	34406
880-18986-21 MSD	AH-9 (1-1.5')	Total/NA	Solid	8021B	34406

GC Semi VOA

Prep Batch: 34028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-1	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-2	H-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-3	H-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-4	H-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-5	H-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-6	H-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-7	H-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-8	H-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-9	H-9 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-10	H-10 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-11	H-11 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-12	H-12 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-13	H-13 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-14	AH-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-15	AH-7 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-16	AH-7 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-18986-17	AH-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-18	AH-8 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-19	AH-8 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-18986-20	AH-9 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-34028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18986-1 MS	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-1 MSD	H-1 (0-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 34029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-21	AH-9 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-22	AH-9 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-18986-23	AH-10 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-24	AH-10 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-25	AH-10 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-18986-26	AH-10 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-18986-27	AH-10 (4-4.5')	Total/NA	Solid	8015NM Prep	
880-18986-28	AH-11 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-29	AH-11 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-30	AH-11 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-18986-31	AH-12 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-32	AH-12 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-33	AH-12 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-18986-34	AH-13 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-35	AH-13 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-36	AH-13 (2-2.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Prep Batch: 34029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-37	AH-14 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-38	AH-14 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-39	AH-14 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-18986-40	AH-14 (3-3.5')	Total/NA	Solid	8015NM Prep	
MB 880-34029/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34029/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34029/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18986-21 MS	AH-9 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-21 MSD	AH-9 (1-1.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 34030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-41	AH-15 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-42	AH-15 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-43	AH-15 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-18986-44	AH-16 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-45	AH-16 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-18986-46	AH-16 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-18986-47	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-48	T-1 (1')	Total/NA	Solid	8015NM Prep	
880-18986-49	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-18986-50	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-18986-51	T-1 (4')	Total/NA	Solid	8015NM Prep	
880-18986-52	T-1 (5')	Total/NA	Solid	8015NM Prep	
MB 880-34030/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34030/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18986-41 MS	AH-15 (0-1')	Total/NA	Solid	8015NM Prep	
880-18986-41 MSD	AH-15 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 34046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-1	H-1 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-2	H-2 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-3	H-3 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-4	H-4 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-5	H-5 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-6	H-6 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-7	H-7 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-8	H-8 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-9	H-9 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-10	H-10 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-11	H-11 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-12	H-12 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-13	H-13 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-14	AH-7 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-15	AH-7 (1-1.5')	Total/NA	Solid	8015B NM	34028
880-18986-16	AH-7 (2-2.5')	Total/NA	Solid	8015B NM	34028
880-18986-17	AH-8 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-18	AH-8 (1-1.5')	Total/NA	Solid	8015B NM	34028
880-18986-19	AH-8 (2-2.5')	Total/NA	Solid	8015B NM	34028

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 34046 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-20	AH-9 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-41	AH-15 (0-1')	Total/NA	Solid	8015B NM	34030
880-18986-42	AH-15 (1-1.5')	Total/NA	Solid	8015B NM	34030
880-18986-43	AH-15 (2-2.5')	Total/NA	Solid	8015B NM	34030
880-18986-44	AH-16 (0-1')	Total/NA	Solid	8015B NM	34030
880-18986-45	AH-16 (1-1.5')	Total/NA	Solid	8015B NM	34030
880-18986-46	AH-16 (2-2.5')	Total/NA	Solid	8015B NM	34030
880-18986-47	T-1 (0-1')	Total/NA	Solid	8015B NM	34030
880-18986-48	T-1 (1')	Total/NA	Solid	8015B NM	34030
880-18986-49	T-1 (2')	Total/NA	Solid	8015B NM	34030
880-18986-50	T-1 (3')	Total/NA	Solid	8015B NM	34030
880-18986-51	T-1 (4')	Total/NA	Solid	8015B NM	34030
880-18986-52	T-1 (5')	Total/NA	Solid	8015B NM	34030
MB 880-34028/1-A	Method Blank	Total/NA	Solid	8015B NM	34028
MB 880-34030/1-A	Method Blank	Total/NA	Solid	8015B NM	34030
LCS 880-34028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34028
LCS 880-34030/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34030
LCSD 880-34028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34028
LCSD 880-34030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34030
880-18986-1 MS	H-1 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-1 MSD	H-1 (0-1')	Total/NA	Solid	8015B NM	34028
880-18986-41 MS	AH-15 (0-1')	Total/NA	Solid	8015B NM	34030
880-18986-41 MSD	AH-15 (0-1')	Total/NA	Solid	8015B NM	34030

Analysis Batch: 34048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-21	AH-9 (1-1.5')	Total/NA	Solid	8015B NM	34029
880-18986-22	AH-9 (2-2.5')	Total/NA	Solid	8015B NM	34029
880-18986-23	AH-10 (0-1')	Total/NA	Solid	8015B NM	34029
880-18986-24	AH-10 (1-1.5')	Total/NA	Solid	8015B NM	34029
880-18986-25	AH-10 (2-2.5')	Total/NA	Solid	8015B NM	34029
880-18986-26	AH-10 (3-3.5')	Total/NA	Solid	8015B NM	34029
880-18986-27	AH-10 (4-4.5')	Total/NA	Solid	8015B NM	34029
880-18986-28	AH-11 (0-1')	Total/NA	Solid	8015B NM	34029
880-18986-29	AH-11 (1-1.5')	Total/NA	Solid	8015B NM	34029
880-18986-30	AH-11 (2-2.5')	Total/NA	Solid	8015B NM	34029
880-18986-31	AH-12 (0-1')	Total/NA	Solid	8015B NM	34029
880-18986-32	AH-12 (1-1.5')	Total/NA	Solid	8015B NM	34029
880-18986-33	AH-12 (2-2.5')	Total/NA	Solid	8015B NM	34029
880-18986-34	AH-13 (0-1')	Total/NA	Solid	8015B NM	34029
880-18986-35	AH-13 (1-1.5')	Total/NA	Solid	8015B NM	34029
880-18986-36	AH-13 (2-2.5')	Total/NA	Solid	8015B NM	34029
880-18986-37	AH-14 (0-1')	Total/NA	Solid	8015B NM	34029
880-18986-38	AH-14 (1-1.5')	Total/NA	Solid	8015B NM	34029
880-18986-39	AH-14 (2-2.5')	Total/NA	Solid	8015B NM	34029
880-18986-40	AH-14 (3-3.5')	Total/NA	Solid	8015B NM	34029
MB 880-34029/1-A	Method Blank	Total/NA	Solid	8015B NM	34029
LCS 880-34029/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34029
LCSD 880-34029/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34029
880-18986-21 MS	AH-9 (1-1.5')	Total/NA	Solid	8015B NM	34029
880-18986-21 MSD	AH-9 (1-1.5')	Total/NA	Solid	8015B NM	34029

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

GC Semi VOA

Analysis Batch: 34242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-1	H-1 (0-1')	Total/NA	Solid	8015 NM	
880-18986-2	H-2 (0-1')	Total/NA	Solid	8015 NM	
880-18986-3	H-3 (0-1')	Total/NA	Solid	8015 NM	
880-18986-4	H-4 (0-1')	Total/NA	Solid	8015 NM	
880-18986-5	H-5 (0-1')	Total/NA	Solid	8015 NM	
880-18986-6	H-6 (0-1')	Total/NA	Solid	8015 NM	
880-18986-7	H-7 (0-1')	Total/NA	Solid	8015 NM	
880-18986-8	H-8 (0-1')	Total/NA	Solid	8015 NM	
880-18986-9	H-9 (0-1')	Total/NA	Solid	8015 NM	
880-18986-10	H-10 (0-1')	Total/NA	Solid	8015 NM	
880-18986-11	H-11 (0-1')	Total/NA	Solid	8015 NM	
880-18986-12	H-12 (0-1')	Total/NA	Solid	8015 NM	
880-18986-13	H-13 (0-1')	Total/NA	Solid	8015 NM	
880-18986-14	AH-7 (0-1')	Total/NA	Solid	8015 NM	
880-18986-15	AH-7 (1-1.5')	Total/NA	Solid	8015 NM	
880-18986-16	AH-7 (2-2.5')	Total/NA	Solid	8015 NM	
880-18986-17	AH-8 (0-1')	Total/NA	Solid	8015 NM	
880-18986-18	AH-8 (1-1.5')	Total/NA	Solid	8015 NM	
880-18986-19	AH-8 (2-2.5')	Total/NA	Solid	8015 NM	
880-18986-20	AH-9 (0-1')	Total/NA	Solid	8015 NM	
880-18986-21	AH-9 (1-1.5')	Total/NA	Solid	8015 NM	
880-18986-22	AH-9 (2-2.5')	Total/NA	Solid	8015 NM	
880-18986-23	AH-10 (0-1')	Total/NA	Solid	8015 NM	
880-18986-24	AH-10 (1-1.5')	Total/NA	Solid	8015 NM	
880-18986-25	AH-10 (2-2.5')	Total/NA	Solid	8015 NM	
880-18986-26	AH-10 (3-3.5')	Total/NA	Solid	8015 NM	
880-18986-27	AH-10 (4-4.5')	Total/NA	Solid	8015 NM	
880-18986-28	AH-11 (0-1')	Total/NA	Solid	8015 NM	
880-18986-29	AH-11 (1-1.5')	Total/NA	Solid	8015 NM	
880-18986-30	AH-11 (2-2.5')	Total/NA	Solid	8015 NM	
880-18986-31	AH-12 (0-1')	Total/NA	Solid	8015 NM	
880-18986-32	AH-12 (1-1.5')	Total/NA	Solid	8015 NM	
880-18986-33	AH-12 (2-2.5')	Total/NA	Solid	8015 NM	
880-18986-34	AH-13 (0-1')	Total/NA	Solid	8015 NM	
880-18986-35	AH-13 (1-1.5')	Total/NA	Solid	8015 NM	
880-18986-36	AH-13 (2-2.5')	Total/NA	Solid	8015 NM	
880-18986-37	AH-14 (0-1')	Total/NA	Solid	8015 NM	
880-18986-38	AH-14 (1-1.5')	Total/NA	Solid	8015 NM	
880-18986-39	AH-14 (2-2.5')	Total/NA	Solid	8015 NM	
880-18986-40	AH-14 (3-3.5')	Total/NA	Solid	8015 NM	
880-18986-41	AH-15 (0-1')	Total/NA	Solid	8015 NM	
880-18986-42	AH-15 (1-1.5')	Total/NA	Solid	8015 NM	
880-18986-43	AH-15 (2-2.5')	Total/NA	Solid	8015 NM	
880-18986-44	AH-16 (0-1')	Total/NA	Solid	8015 NM	
880-18986-45	AH-16 (1-1.5')	Total/NA	Solid	8015 NM	
880-18986-46	AH-16 (2-2.5')	Total/NA	Solid	8015 NM	
880-18986-47	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-18986-48	T-1 (1')	Total/NA	Solid	8015 NM	
880-18986-49	T-1 (2')	Total/NA	Solid	8015 NM	
880-18986-50	T-1 (3')	Total/NA	Solid	8015 NM	
880-18986-51	T-1 (4')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 34242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-52	T-1 (5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-1	H-1 (0-1')	Soluble	Solid	DI Leach	
880-18986-2	H-2 (0-1')	Soluble	Solid	DI Leach	
880-18986-3	H-3 (0-1')	Soluble	Solid	DI Leach	
880-18986-4	H-4 (0-1')	Soluble	Solid	DI Leach	
880-18986-5	H-5 (0-1')	Soluble	Solid	DI Leach	
880-18986-6	H-6 (0-1')	Soluble	Solid	DI Leach	
880-18986-7	H-7 (0-1')	Soluble	Solid	DI Leach	
880-18986-8	H-8 (0-1')	Soluble	Solid	DI Leach	
880-18986-9	H-9 (0-1')	Soluble	Solid	DI Leach	
880-18986-10	H-10 (0-1')	Soluble	Solid	DI Leach	
880-18986-11	H-11 (0-1')	Soluble	Solid	DI Leach	
880-18986-12	H-12 (0-1')	Soluble	Solid	DI Leach	
880-18986-13	H-13 (0-1')	Soluble	Solid	DI Leach	
880-18986-14	AH-7 (0-1')	Soluble	Solid	DI Leach	
880-18986-15	AH-7 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-16	AH-7 (2-2.5')	Soluble	Solid	DI Leach	
880-18986-17	AH-8 (0-1')	Soluble	Solid	DI Leach	
880-18986-18	AH-8 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-19	AH-8 (2-2.5')	Soluble	Solid	DI Leach	
880-18986-20	AH-9 (0-1')	Soluble	Solid	DI Leach	
MB 880-34025/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34025/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34025/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18986-1 MS	H-1 (0-1')	Soluble	Solid	DI Leach	
880-18986-1 MSD	H-1 (0-1')	Soluble	Solid	DI Leach	
880-18986-11 MS	H-11 (0-1')	Soluble	Solid	DI Leach	
880-18986-11 MSD	H-11 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 34026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-21	AH-9 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-22	AH-9 (2-2.5')	Soluble	Solid	DI Leach	
880-18986-23	AH-10 (0-1')	Soluble	Solid	DI Leach	
880-18986-24	AH-10 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-25	AH-10 (2-2.5')	Soluble	Solid	DI Leach	
880-18986-26	AH-10 (3-3.5')	Soluble	Solid	DI Leach	
880-18986-27	AH-10 (4-4.5')	Soluble	Solid	DI Leach	
880-18986-28	AH-11 (0-1')	Soluble	Solid	DI Leach	
880-18986-29	AH-11 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-30	AH-11 (2-2.5')	Soluble	Solid	DI Leach	
880-18986-31	AH-12 (0-1')	Soluble	Solid	DI Leach	
880-18986-32	AH-12 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-33	AH-12 (2-2.5')	Soluble	Solid	DI Leach	
880-18986-34	AH-13 (0-1')	Soluble	Solid	DI Leach	
880-18986-35	AH-13 (1-1.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 34026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-36	AH-13 (2-2.5')	Soluble	Solid	DI Leach	
880-18986-37	AH-14 (0-1')	Soluble	Solid	DI Leach	
880-18986-38	AH-14 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-39	AH-14 (2-2.5')	Soluble	Solid	DI Leach	
880-18986-40	AH-14 (3-3.5')	Soluble	Solid	DI Leach	
MB 880-34026/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34026/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34026/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18986-21 MS	AH-9 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-21 MSD	AH-9 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-31 MS	AH-12 (0-1')	Soluble	Solid	DI Leach	
880-18986-31 MSD	AH-12 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 34027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-41	AH-15 (0-1')	Soluble	Solid	DI Leach	
880-18986-42	AH-15 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-43	AH-15 (2-2.5')	Soluble	Solid	DI Leach	
880-18986-44	AH-16 (0-1')	Soluble	Solid	DI Leach	
880-18986-45	AH-16 (1-1.5')	Soluble	Solid	DI Leach	
880-18986-46	AH-16 (2-2.5')	Soluble	Solid	DI Leach	
880-18986-47	T-1 (0-1')	Soluble	Solid	DI Leach	
880-18986-48	T-1 (1')	Soluble	Solid	DI Leach	
880-18986-49	T-1 (2')	Soluble	Solid	DI Leach	
880-18986-50	T-1 (3')	Soluble	Solid	DI Leach	
880-18986-51	T-1 (4')	Soluble	Solid	DI Leach	
880-18986-52	T-1 (5')	Soluble	Solid	DI Leach	
MB 880-34027/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34027/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34027/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18986-41 MS	AH-15 (0-1')	Soluble	Solid	DI Leach	
880-18986-41 MSD	AH-15 (0-1')	Soluble	Solid	DI Leach	
880-18986-51 MS	T-1 (4')	Soluble	Solid	DI Leach	
880-18986-51 MSD	T-1 (4')	Soluble	Solid	DI Leach	

Analysis Batch: 34094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-1	H-1 (0-1')	Soluble	Solid	300.0	34025
880-18986-2	H-2 (0-1')	Soluble	Solid	300.0	34025
880-18986-3	H-3 (0-1')	Soluble	Solid	300.0	34025
880-18986-4	H-4 (0-1')	Soluble	Solid	300.0	34025
880-18986-5	H-5 (0-1')	Soluble	Solid	300.0	34025
880-18986-6	H-6 (0-1')	Soluble	Solid	300.0	34025
880-18986-7	H-7 (0-1')	Soluble	Solid	300.0	34025
880-18986-8	H-8 (0-1')	Soluble	Solid	300.0	34025
880-18986-9	H-9 (0-1')	Soluble	Solid	300.0	34025
880-18986-10	H-10 (0-1')	Soluble	Solid	300.0	34025
880-18986-11	H-11 (0-1')	Soluble	Solid	300.0	34025
880-18986-12	H-12 (0-1')	Soluble	Solid	300.0	34025
880-18986-13	H-13 (0-1')	Soluble	Solid	300.0	34025
880-18986-14	AH-7 (0-1')	Soluble	Solid	300.0	34025

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 34094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-15	AH-7 (1-1.5')	Soluble	Solid	300.0	34025
880-18986-16	AH-7 (2-2.5')	Soluble	Solid	300.0	34025
880-18986-17	AH-8 (0-1')	Soluble	Solid	300.0	34025
880-18986-18	AH-8 (1-1.5')	Soluble	Solid	300.0	34025
880-18986-19	AH-8 (2-2.5')	Soluble	Solid	300.0	34025
880-18986-20	AH-9 (0-1')	Soluble	Solid	300.0	34025
MB 880-34025/1-A	Method Blank	Soluble	Solid	300.0	34025
LCS 880-34025/2-A	Lab Control Sample	Soluble	Solid	300.0	34025
LCSD 880-34025/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34025
880-18986-1 MS	H-1 (0-1')	Soluble	Solid	300.0	34025
880-18986-1 MSD	H-1 (0-1')	Soluble	Solid	300.0	34025
880-18986-11 MS	H-11 (0-1')	Soluble	Solid	300.0	34025
880-18986-11 MSD	H-11 (0-1')	Soluble	Solid	300.0	34025

Analysis Batch: 34095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-21	AH-9 (1-1.5')	Soluble	Solid	300.0	34026
880-18986-22	AH-9 (2-2.5')	Soluble	Solid	300.0	34026
880-18986-23	AH-10 (0-1')	Soluble	Solid	300.0	34026
880-18986-24	AH-10 (1-1.5')	Soluble	Solid	300.0	34026
880-18986-25	AH-10 (2-2.5')	Soluble	Solid	300.0	34026
880-18986-26	AH-10 (3-3.5')	Soluble	Solid	300.0	34026
880-18986-27	AH-10 (4-4.5')	Soluble	Solid	300.0	34026
880-18986-28	AH-11 (0-1')	Soluble	Solid	300.0	34026
880-18986-29	AH-11 (1-1.5')	Soluble	Solid	300.0	34026
880-18986-30	AH-11 (2-2.5')	Soluble	Solid	300.0	34026
880-18986-31	AH-12 (0-1')	Soluble	Solid	300.0	34026
880-18986-32	AH-12 (1-1.5')	Soluble	Solid	300.0	34026
880-18986-33	AH-12 (2-2.5')	Soluble	Solid	300.0	34026
880-18986-34	AH-13 (0-1')	Soluble	Solid	300.0	34026
880-18986-35	AH-13 (1-1.5')	Soluble	Solid	300.0	34026
880-18986-36	AH-13 (2-2.5')	Soluble	Solid	300.0	34026
880-18986-37	AH-14 (0-1')	Soluble	Solid	300.0	34026
880-18986-38	AH-14 (1-1.5')	Soluble	Solid	300.0	34026
880-18986-39	AH-14 (2-2.5')	Soluble	Solid	300.0	34026
880-18986-40	AH-14 (3-3.5')	Soluble	Solid	300.0	34026
MB 880-34026/1-A	Method Blank	Soluble	Solid	300.0	34026
LCS 880-34026/2-A	Lab Control Sample	Soluble	Solid	300.0	34026
LCSD 880-34026/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34026
880-18986-21 MS	AH-9 (1-1.5')	Soluble	Solid	300.0	34026
880-18986-21 MSD	AH-9 (1-1.5')	Soluble	Solid	300.0	34026
880-18986-31 MS	AH-12 (0-1')	Soluble	Solid	300.0	34026
880-18986-31 MSD	AH-12 (0-1')	Soluble	Solid	300.0	34026

Analysis Batch: 34096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-41	AH-15 (0-1')	Soluble	Solid	300.0	34027
880-18986-42	AH-15 (1-1.5')	Soluble	Solid	300.0	34027
880-18986-43	AH-15 (2-2.5')	Soluble	Solid	300.0	34027
880-18986-44	AH-16 (0-1')	Soluble	Solid	300.0	34027
880-18986-45	AH-16 (1-1.5')	Soluble	Solid	300.0	34027

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 34096 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18986-46	AH-16 (2-2.5')	Soluble	Solid	300.0	34027
880-18986-47	T-1 (0-1')	Soluble	Solid	300.0	34027
880-18986-48	T-1 (1')	Soluble	Solid	300.0	34027
880-18986-49	T-1 (2')	Soluble	Solid	300.0	34027
880-18986-50	T-1 (3')	Soluble	Solid	300.0	34027
880-18986-51	T-1 (4')	Soluble	Solid	300.0	34027
880-18986-52	T-1 (5')	Soluble	Solid	300.0	34027
MB 880-34027/1-A	Method Blank	Soluble	Solid	300.0	34027
LCS 880-34027/2-A	Lab Control Sample	Soluble	Solid	300.0	34027
LCSD 880-34027/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34027
880-18986-41 MS	AH-15 (0-1')	Soluble	Solid	300.0	34027
880-18986-41 MSD	AH-15 (0-1')	Soluble	Solid	300.0	34027
880-18986-51 MS	T-1 (4')	Soluble	Solid	300.0	34027
880-18986-51 MSD	T-1 (4')	Soluble	Solid	300.0	34027

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-1

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 02:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 09:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 05:02	CH	EET MID

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

Lab Sample ID: 880-18986-2

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 03:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 11:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 05:17	CH	EET MID

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

Lab Sample ID: 880-18986-3

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 03:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 11:24	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 05:22	CH	EET MID

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

Lab Sample ID: 880-18986-4

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 04:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18986-4

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 11:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 05:27	CH	EET MID

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

Lab Sample ID: 880-18986-5

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 04:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 12:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 05:32	CH	EET MID

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

Lab Sample ID: 880-18986-6

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 05:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 12:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 05:46	CH	EET MID

Client Sample ID: H-7 (0-1')

Lab Sample ID: 880-18986-7

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 05:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 12:50	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: H-7 (0-1')

Lab Sample ID: 880-18986-7

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 05:51	CH	EET MID

Client Sample ID: H-8 (0-1')

Lab Sample ID: 880-18986-8

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 05:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 13:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 05:56	CH	EET MID

Client Sample ID: H-9 (0-1')

Lab Sample ID: 880-18986-9

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 06:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 13:33	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 06:01	CH	EET MID

Client Sample ID: H-10 (0-1')

Lab Sample ID: 880-18986-10

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 06:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 13:55	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 06:06	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: H-11 (0-1')

Lab Sample ID: 880-18986-11

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 08:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 14:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 06:11	CH	EET MID

Client Sample ID: H-12 (0-1')

Lab Sample ID: 880-18986-12

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 08:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 15:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 06:25	CH	EET MID

Client Sample ID: H-13 (0-1')

Lab Sample ID: 880-18986-13

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 09:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 15:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 06:30	CH	EET MID

Client Sample ID: AH-7 (0-1')

Lab Sample ID: 880-18986-14

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 09:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-7 (0-1')

Lab Sample ID: 880-18986-14

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 15:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 06:45	CH	EET MID

Client Sample ID: AH-7 (1-1.5')

Lab Sample ID: 880-18986-15

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 10:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 16:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 06:49	CH	EET MID

Client Sample ID: AH-7 (2-2.5')

Lab Sample ID: 880-18986-16

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 10:38	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 16:27	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 06:54	CH	EET MID

Client Sample ID: AH-8 (0-1')

Lab Sample ID: 880-18986-17

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 11:04	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 16:49	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-8 (0-1')

Lab Sample ID: 880-18986-17

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 06:59	CH	EET MID

Client Sample ID: AH-8 (1-1.5')

Lab Sample ID: 880-18986-18

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 11:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 17:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 07:04	CH	EET MID

Client Sample ID: AH-8 (2-2.5')

Lab Sample ID: 880-18986-19

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 11:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 17:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 07:09	CH	EET MID

Client Sample ID: AH-9 (0-1')

Lab Sample ID: 880-18986-20

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34404	09/13/22 13:38	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34643	09/17/22 12:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34028	09/08/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 17:54	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34025	09/08/22 15:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34094	09/11/22 07:14	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-9 (1-1.5')

Lab Sample ID: 880-18986-21

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 02:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 09:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 07:53	CH	EET MID

Client Sample ID: AH-9 (2-2.5')

Lab Sample ID: 880-18986-22

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 02:49	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 11:02	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 08:08	CH	EET MID

Client Sample ID: AH-10 (0-1')

Lab Sample ID: 880-18986-23

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 03:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 11:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 08:12	CH	EET MID

Client Sample ID: AH-10 (1-1.5')

Lab Sample ID: 880-18986-24

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 03:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-10 (1-1.5')

Lab Sample ID: 880-18986-24

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 11:45	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	34095	09/11/22 08:17	CH	EET MID

Client Sample ID: AH-10 (2-2.5')

Lab Sample ID: 880-18986-25

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 04:08	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 12:07	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	34095	09/11/22 08:22	CH	EET MID

Client Sample ID: AH-10 (3-3.5')

Lab Sample ID: 880-18986-26

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 04:34	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 12:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	34095	09/11/22 08:37	CH	EET MID

Client Sample ID: AH-10 (4-4.5')

Lab Sample ID: 880-18986-27

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 05:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 12:50	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-10 (4-4.5')

Lab Sample ID: 880-18986-27

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 08:42	CH	EET MID

Client Sample ID: AH-11 (0-1')

Lab Sample ID: 880-18986-28

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 05:27	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 13:12	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 08:46	CH	EET MID

Client Sample ID: AH-11 (1-1.5')

Lab Sample ID: 880-18986-29

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 05:53	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 13:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 08:51	CH	EET MID

Client Sample ID: AH-11 (2-2.5')

Lab Sample ID: 880-18986-30

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 06:20	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 13:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 08:56	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-12 (0-1')

Lab Sample ID: 880-18986-31

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 09:52	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 14:39	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	34095	09/11/22 09:01	CH	EET MID

Client Sample ID: AH-12 (1-1.5')

Lab Sample ID: 880-18986-32

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 10:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 15:01	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 09:15	CH	EET MID

Client Sample ID: AH-12 (2-2.5')

Lab Sample ID: 880-18986-33

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 10:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 15:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 09:20	CH	EET MID

Client Sample ID: AH-13 (0-1')

Lab Sample ID: 880-18986-34

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 11:12	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-13 (0-1')

Lab Sample ID: 880-18986-34

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 15:44	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 09:35	CH	EET MID

Client Sample ID: AH-13 (1-1.5')

Lab Sample ID: 880-18986-35

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 11:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 16:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 09:40	CH	EET MID

Client Sample ID: AH-13 (2-2.5')

Lab Sample ID: 880-18986-36

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 12:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 16:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 09:45	CH	EET MID

Client Sample ID: AH-14 (0-1')

Lab Sample ID: 880-18986-37

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 12:31	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 16:49	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-14 (0-1')**Lab Sample ID: 880-18986-37****Date Collected: 09/08/22 00:00****Matrix: Solid****Date Received: 09/08/22 14:22**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 09:57	CH	EET MID

Client Sample ID: AH-14 (1-1.5')**Lab Sample ID: 880-18986-38****Date Collected: 09/08/22 00:00****Matrix: Solid****Date Received: 09/08/22 14:22**

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 12:57	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 17:10	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	34095	09/11/22 10:02	CH	EET MID

Client Sample ID: AH-14 (2-2.5')**Lab Sample ID: 880-18986-39****Date Collected: 09/08/22 00:00****Matrix: Solid****Date Received: 09/08/22 14:22**

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 13:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 17:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	34095	09/11/22 09:52	CH	EET MID

Client Sample ID: AH-14 (3-3.5')**Lab Sample ID: 880-18986-40****Date Collected: 09/08/22 00:00****Matrix: Solid****Date Received: 09/08/22 14:22**

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	34406	09/13/22 13:41	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34926	09/21/22 13:50	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34029	09/08/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34048	09/09/22 17:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34026	09/08/22 15:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34095	09/11/22 10:07	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-15 (0-1')

Lab Sample ID: 880-18986-41

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 12:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 19:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	34096	09/11/22 13:23	SMC	EET MID

Client Sample ID: AH-15 (1-1.5')

Lab Sample ID: 880-18986-42

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 12:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 20:46	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34096	09/11/22 13:38	SMC	EET MID

Client Sample ID: AH-15 (2-2.5')

Lab Sample ID: 880-18986-43

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 13:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 21:08	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34096	09/11/22 13:43	SMC	EET MID

Client Sample ID: AH-16 (0-1')

Lab Sample ID: 880-18986-44

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 13:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: AH-16 (0-1')

Lab Sample ID: 880-18986-44

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 21:30	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	34096	09/11/22 13:48	SMC	EET MID

Client Sample ID: AH-16 (1-1.5')

Lab Sample ID: 880-18986-45

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 13:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 21:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34096	09/11/22 13:52	SMC	EET MID

Client Sample ID: AH-16 (2-2.5')

Lab Sample ID: 880-18986-46

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 16:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 22:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34096	09/11/22 14:07	SMC	EET MID

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

Lab Sample ID: 880-18986-47

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 16:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 22:34	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

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

Date Collected: 09/08/22 00:00

Date Received: 09/08/22 14:22

Lab Sample ID: 880-18986-47

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34096	09/11/22 14:12	SMC	EET MID

Client Sample ID: T-1 (1')

Date Collected: 09/08/22 00:00

Date Received: 09/08/22 14:22

Lab Sample ID: 880-18986-48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 16:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 22:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34096	09/11/22 14:17	SMC	EET MID

Client Sample ID: T-1 (2')

Date Collected: 09/08/22 00:00

Date Received: 09/08/22 14:22

Lab Sample ID: 880-18986-49

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 17:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 23:17	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34096	09/11/22 14:22	SMC	EET MID

Client Sample ID: T-1 (3')

Date Collected: 09/08/22 00:00

Date Received: 09/08/22 14:22

Lab Sample ID: 880-18986-50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 17:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/09/22 23:39	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34096	09/11/22 14:26	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Client Sample ID: T-1 (4')

Lab Sample ID: 880-18986-51

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 17:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/10/22 00:22	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34096	09/11/22 14:31	SMC	EET MID

Client Sample ID: T-1 (5')

Lab Sample ID: 880-18986-52

Date Collected: 09/08/22 00:00

Matrix: Solid

Date Received: 09/08/22 14:22

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	34351	09/13/22 09:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34340	09/13/22 18:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34405	09/13/22 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			34242	09/12/22 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34030	09/08/22 15:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34046	09/10/22 00:44	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34027	09/08/22 15:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34096	09/11/22 14:46	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	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: Red Hills Unit #16-17H

Job ID: 880-18986-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18986-1	H-1 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-2	H-2 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-3	H-3 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-4	H-4 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-5	H-5 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-6	H-6 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-7	H-7 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-8	H-8 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-9	H-9 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-10	H-10 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-11	H-11 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-12	H-12 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-13	H-13 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-14	AH-7 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-15	AH-7 (1-1.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-16	AH-7 (2-2.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-17	AH-8 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-18	AH-8 (1-1.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-19	AH-8 (2-2.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-20	AH-9 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-21	AH-9 (1-1.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-22	AH-9 (2-2.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-23	AH-10 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-24	AH-10 (1-1.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-25	AH-10 (2-2.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-26	AH-10 (3-3.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-27	AH-10 (4-4.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-28	AH-11 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-29	AH-11 (1-1.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-30	AH-11 (2-2.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-31	AH-12 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-32	AH-12 (1-1.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-33	AH-12 (2-2.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-34	AH-13 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-35	AH-13 (1-1.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-36	AH-13 (2-2.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-37	AH-14 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-38	AH-14 (1-1.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-39	AH-14 (2-2.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-40	AH-14 (3-3.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-41	AH-15 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-42	AH-15 (1-1.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-43	AH-15 (2-2.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-44	AH-16 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-45	AH-16 (1-1.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-46	AH-16 (2-2.5')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-47	T-1 (0-1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-48	T-1 (1')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-49	T-1 (2')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-50	T-1 (3')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-51	T-1 (4')	Solid	09/08/22 00:00	09/08/22 14:22
880-18986-52	T-1 (5')	Solid	09/08/22 00:00	09/08/22 14:22

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Chain of Custody

Work Order No: 18986

Page 1 of 1

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

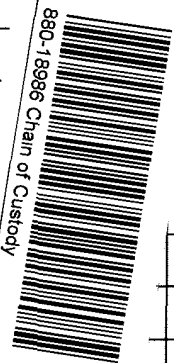
Work Order Comments	
Program, UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund
State of Project:	
Reporting Level II	☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV
Deliverables EDD	☐ ADAPT ☐ Other

Project Name:	Red Hills Unit #16-17H	Turn Around	Free. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	1124	☐ Routine ☒ Rush				None NO DI Water H ₂ O
Project Location	Lea Co, NM	Due Date	72 Hours			Cool Cool MeOH Me
Sampler's Name:	AT	TAT starts the day received by the lab if received by 4:30pm				HCL HC HNO ₃ HN
PO #						H ₂ SO ₄ H ₂ NaOH Na
SAMPLE RECEIPT		Temp Blank	Yes No	Wet Ice	Yes No	H ₃ PO ₄ HP
Received 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	TPH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		9/8/22			
		1422			



Chain of Custody

Work Order No: 18982

Page 2 of 2

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

Work Order Comments	
Program	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Unperfund ☐
State of Project:	
Reporting Level II	☐ Level III ☐ PST/UST ☐ PRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name:	Red Hills Unit #16-17H	Turn Around	☐ Routine ☒ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes		
Project Number	1124	Due Date	72 Hours														None NO	DI Water H ₂ O
Project Location	Lee Co, NM																Cool Cool	MeOH Me
Sampler's Name:	AT																HCL HC	HNO ₃ HN
PO #																	H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT	Temp Blank	Yes	No	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 S APC	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH										Sample Comments		
H-11 (0-1')	9/8/2022		X		Grab/	1	X	X	X										
H-12 (0-1')	9/8/2022		X		Grab/	1	X	X	X										
H-13 (0-1')	9/8/2022		X		Grab/	1	X	X	X										
AH-7 (0-1')	9/8/2022		X		Grab/	1	X	X	X										
AH-7 (1-1.5)	9/8/2022		X		Grab/	1	X	X	X										
AH-7 (2-2.5)	9/8/2022		X		Grab/	1	X	X	X										
AH-8 (0-1')	9/8/2022		X		Grab/	1	X	X	X										
AH-8 (1-1.5)	9/8/2022		X		Grab/	1	X	X	X										
AH-8 (2-2.5)	9/8/2022		X		Grab/	1	X	X	X										
AH-9 (0-1')	9/8/2022		X		Grab/	1	X	X	X										

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1	2	9/8/22	3	4	11/14/22
5			6		

Work Order No: 189836

Page 3 of _____

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

Work Order Comments Program UST/PST ☐ PRP ☐ brownfields ☐ RRC ☐ superfund State of Project Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ Adapt ☐ Other									
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Project Name:		Red Hills Unit #16-17H		Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes			
Project Number	1124	☐ Routine	☒ Rush														None NO	DI Water- H ₂ O		
Project Location	Lea Co, NM	Due Date	72 Hours														Cool Cool	MeOH Me		
Sampler's Name,	AT	TAT starts the day received by the lab if received by 4 30pm															HCL HC	HNO ₃ HN		
PO #:																	H ₂ SO ₄ H ₂	NaOH Na		
SAMPLE RECEIPT				Temp Blank	Yes	No	Well Ice	Yes	No									H ₃ PO ₄ HP		
Received Intact:				Yes	No	Thermometer ID									NaHSO ₄ NABIS					
Cooler Custody Seals.				Yes	No	N/A	Correction Factor									Na ₂ S ₂ O ₃ NaSO ₃				
Sample Custody Seals				Yes	No	N/A	Temperature Reading									Zn Acetate+NaOH Zn				
Total Containers						Corrected Temperature									NaOH+Ascorbic Acid SAPC					
Sample Identification			Date	Time	Soil	Water	Grab/ Comp	# of Cont									Sample Comments			
AH-9 (1-1.5')			9/8/2022		X		Grab/	1	X	X	X									
AH-9 (2-2.5')			9/8/2022		X		Grab/	1	X	X	X									
AH-10 (0-1')			9/8/2022		X		Grab/	1	X	X	X									
AH-10 (1-1.5')			9/8/2022		X		Grab/	1	X	X	X									
AH-10 (2-2.5')			9/8/2022		X		Grab/	1	X	X	X									
AH-10 (3-3.5')			9/8/2022		X		Grab/	1	X	X	X									
AH-10 (4-4.5')			9/8/2022		X		Grab/	1	X	X	X									
AH-11 (0-1')			9/8/2022		X		Grab/	1	X	X	X									
AH-11 (1-1.5')			9/8/2022		X		Grab/	1	X	X	X									
AH-11 (2-2.5')			9/8/2022		X		Grab/	1	X	X	X									

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		2/18/22			
		1/12/22			

Chain of Custody

Work Order No: 18186

Page 4 of 4

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

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Red Hills Unit #16-17H	Turn Around	☐ Routine ☒ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number	1124	Due Date	72 Hours													None NO	DI Water H ₂ O
Project Location	Lea Co. NM															Cool Cool	MeOH Me
Sampler's Name:	AT															HCL HC	HNO ₃ HN
PO #																H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT	Temp Blank	Yes	No	Wet Ice	Yes	No										H 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	TPH										Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		9/8/22			
		1422			

Chair of Custody

Work Order No:

180196

9/21/2022

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

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name:		Red Hills Unit #16-17H		Turn Around	
Project Number		1124		☐ Routine ☒ Rush	
Project Location		Lea Co. NM		Due Date	
Sampler's Name:		AT		72 Hours	
PO #:				TAT starts the day received by the lab if received by 4:30pm	
SAMPLE RECEIPT					
Received Intact.		Temp Blank		Yes No	
		Yes No		Thermometer ID	
Cooler Custody Seals.		Yes No		Correction Factor	
Sample Custody Seals		Yes No		N/A	
Total Containers				Temperature Reading	
				Corrected Temperature.	

ANALYSIS REQUEST								Preservative Codes	
Parameters	Pres. Code								
BTEX 8021B								None NO	DI Water- H ₂ O
8015M (GRO + DRO + MRO)								Cool Cool	Mech Me
Chloride 300 0								HCL HC	HNO ₃ HN
								H ₂ SO ₄ H ₂	NaOH Na
								H ₃ PO ₄ HP	
								NaHSO ₄ NABIS	
								Na ₂ S ₂ O ₃ NaSO ₃	
								Zn Acetate+NaOH Zn	
								NaOH+Ascorbic Acid SAPC	

[illegible]

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 		9/21/22	2		
3		1/4/22	4		
5			6		

Chain of Custody

Work Order No: 18986

Page 6 of 6

Project Manager	Ashton Thielke	Bill to (if different)	Laci Lung
Company Name	Cammona Resources	Company Name	Cimarrex Energy
Address.	310 West Wall Ste 415	Address.	600 N Marnefield St Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79701
Phone	432-813-5347	Email	laci.lung@coterra.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name:		Red Hills Unit #16-17H		Turn Around						Preservative Codes	
Project Number		1124		☐ Routine ☒ Rush						None NO	
Project Location		Lea Co., NM		Due Date:		72 Hours				DI Water H ₂ O	
Sampler's Name		AT		TAT starts the day received by the lab if received by 4:30pm						Cool Cool HCL HC H ₂ SO ₄ H ₂ H ₃ PO ₄ HP NaHSO ₄ NABIS Na ₂ S ₂ O ₃ NASO ₃ Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SAPC	
PO #:											
SAMPLE RECEIPT		Temp Blank		Yes No		Wet Ice		Yes No		HOLD	
Received Intact:		Yes No		Thermometer ID							
Cooler Custody Seals		Yes No N/A		Correction Factor							
Sample Custody Seals		Yes No N/A		Temperature Reading							
Total Containers				Corrected Temperature							
Parameters				Pres. Code							
BTEX 8021B											
8015M (GRO + DRO + MRO)											
Chloride 300 0											

[illegible]

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 		9/18/22	2		
3		1/4/22	4		
5			6		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-18986-1

SDG Number: Lea Co, NM

Login Number: 18986

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	

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 145684

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 145684
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	12/7/2022