

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Haas 6 Federal Com 001H (06.21.22)
Lea County, New Mexico
Incident ID: NAPP2218849433
Unit A Sec 06 T19S R32E
32.696167°, -103.798522°

Crude Oil Release
Point of Release: Flare Fire
Release Date: 06.21.2022
Volume Released: 1 barrel of Crude Oil
Volume Recovered: 0 barrels of Crude Oil

CARMONA RESOURCES



Prepared for:
Concho Operating, LLC
15 West London Road,
Loving, New Mexico 88256

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 415
Midland, Texas 79701

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT

5.0 REMEDIATION ACTIVITIES

6.0 CONCLUSIONS

FIGURES

FIGURE 1	OVERVIEW	FIGURE 2	TOPOGRAPHIC
FIGURE 3	SAMPLE LOCATION	FIGURE 4	EXCAVATION

APPENDICES

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



September 7, 2022

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

Re: Closure Report
Haas 6 Federal Com #1 (06.21.22)
Concho Operating, LLC
Site Location: Unit A, S06, T19S, R32E
(Lat 32.696167°, Long -103.798522°)
Lea County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities. The site is located at 32.696167, -103.798522 within Unit A, S06, T19S, R32E, and in Lea County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on June 21, 2022, caused by fluids being sent to the flare resulting in a flare fire. It released approximately (one) 1 barrel of crude oil, and (zero) 0 barrels were recovered. The impacted area occurred on the pad and pasture and measured approximately 140' x 20', 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 source is within a 0.50-mile radius of the location. The nearest identified well is approximately 1.52 miles Southeast of the site in S08, T19S, R32E and was drilled in 1958. The well has a reported depth to groundwater of 368.30' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On July 21, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 and S-3) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 1.5 ft below the surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory



analysis and chain-of-custody documentation are included in Appendix E. The sample locations are shown in Figure 3.

5.0 Remediation Activities

Carmona Resources personnel were onsite on August 17-18th, 2022, to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on August 16, 2022, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 1.5' below the surface to remove all the impacted soils. A total of five (5) floor confirmation samples were collected (CS-1 through CS-5), and six (6) sidewall samples (SW-1 through SW-6) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 50 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 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 COG formally requests closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

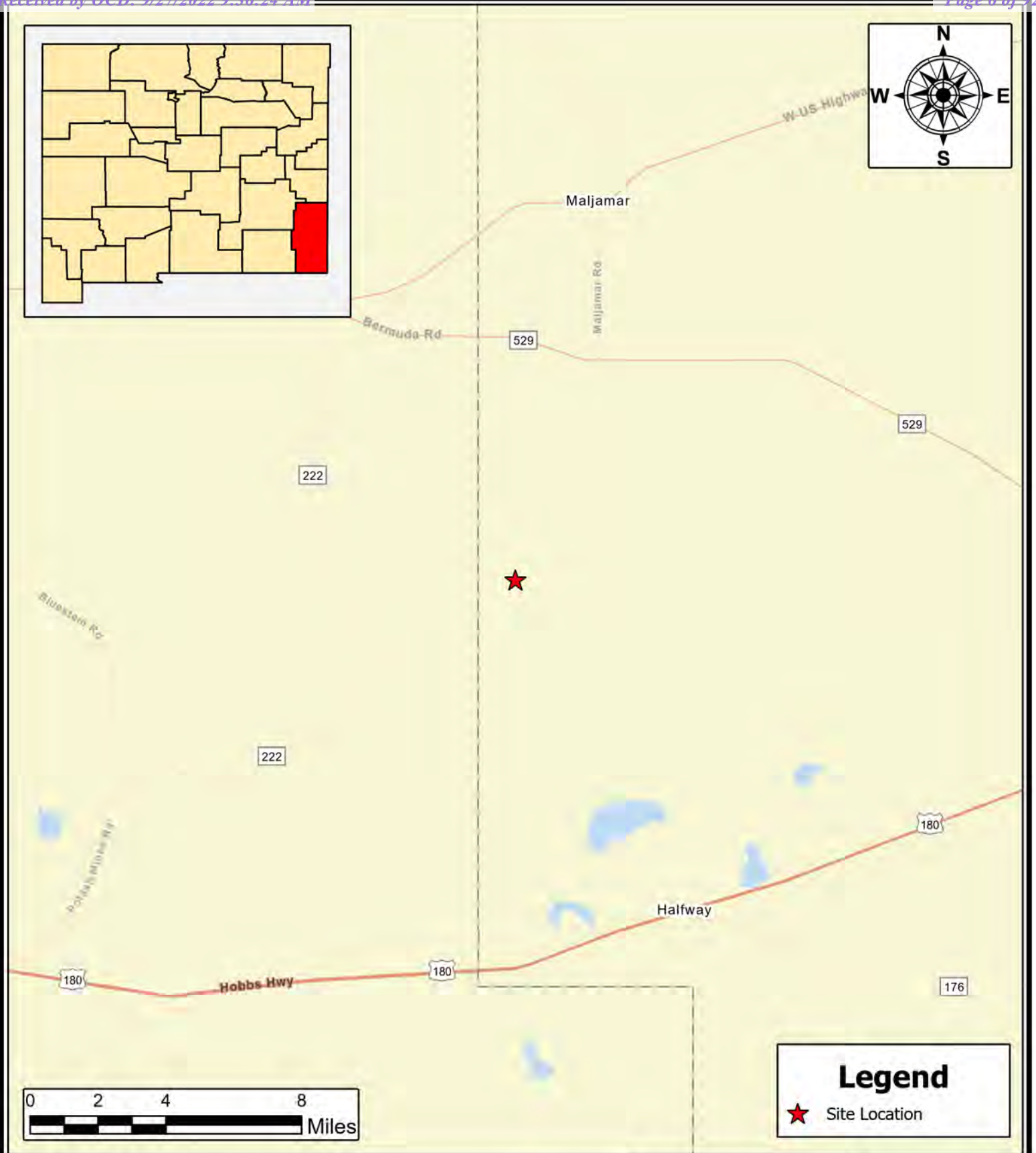
Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



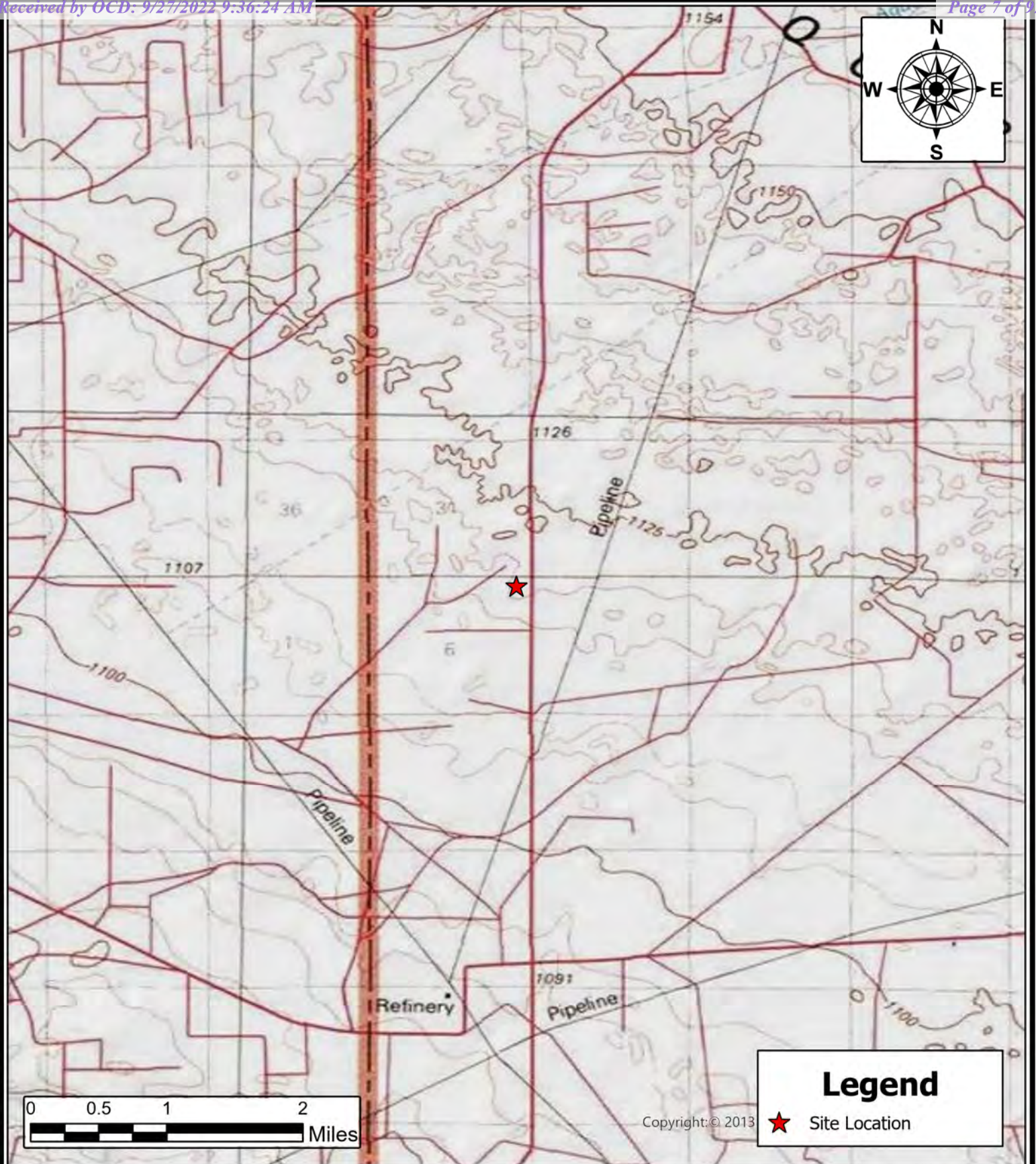


OVERVIEW MAP COG OPERATING HAAS 6 FEDERAL COM #1 (06.21.22) LEA COUNTY, NEW MEXICO 32.696167, -103.798522	
SCALE: As Shown	Date: 8/23/2022

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

NOTES: 1. Base Image: ESRI Maps & Data 2013 2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1

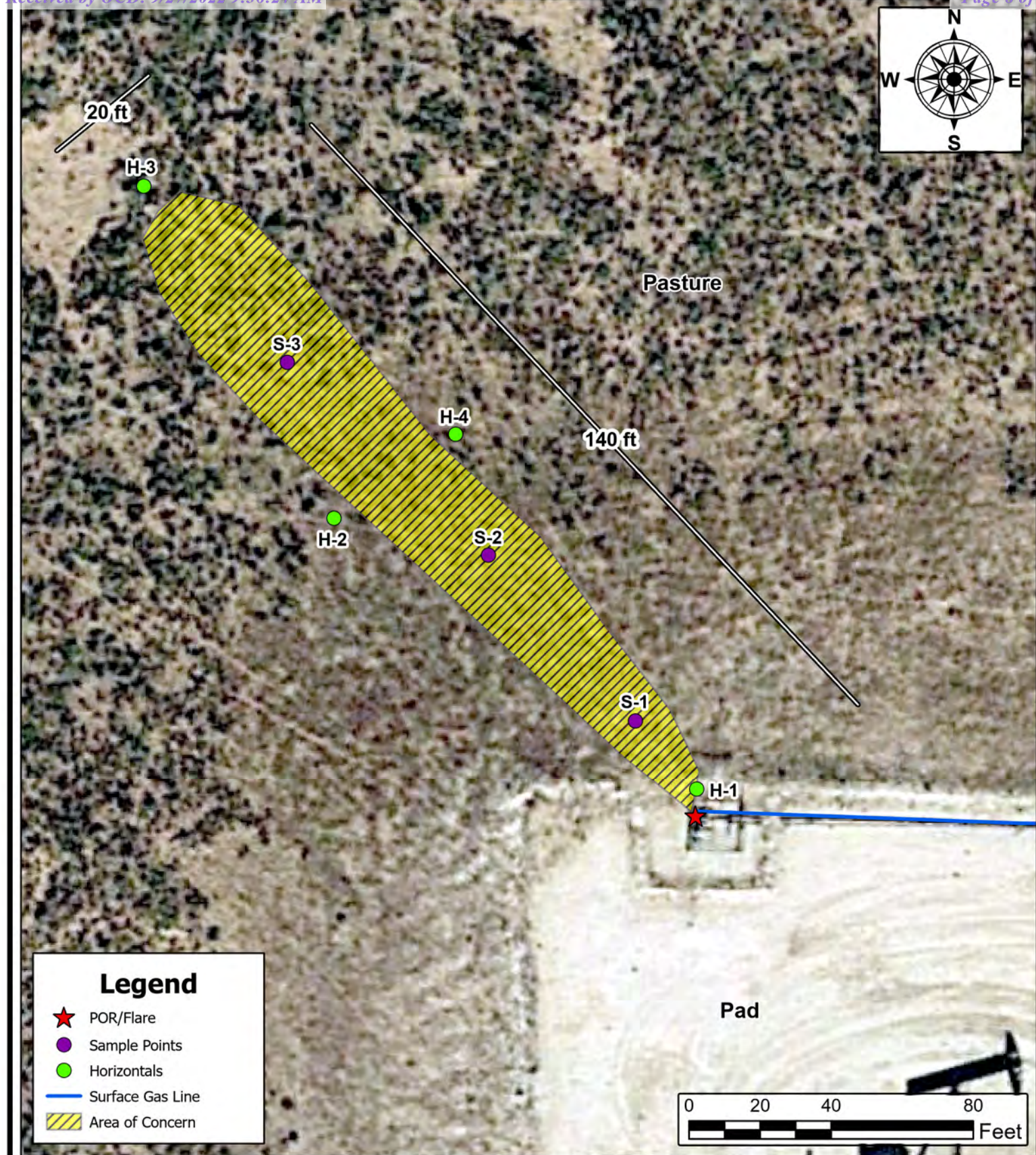


TOPOGRAPHIC MAP COG OPERATING HAAS 6 FEDERAL COM #1 (06.21.22) LEA COUNTY, NEW MEXICO 32.696167, -103.798522	
SCALE: As Shown	Date: 8/23/2022

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

NOTES: 1. Base Image: ESRI Maps & Data 2013 2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER: FIGURE 2
SHEET NUMBER: 1 of 1



SAMPLE LOCATION MAP
COG OPERATING
 HAAS 6 FEDERAL COM #1 (06.21.22)
 LEA COUNTY, NEW MEXICO
 32.696167, -103.798522

SCALE: As Shown

Date: 8/23/2022



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

NOTES:

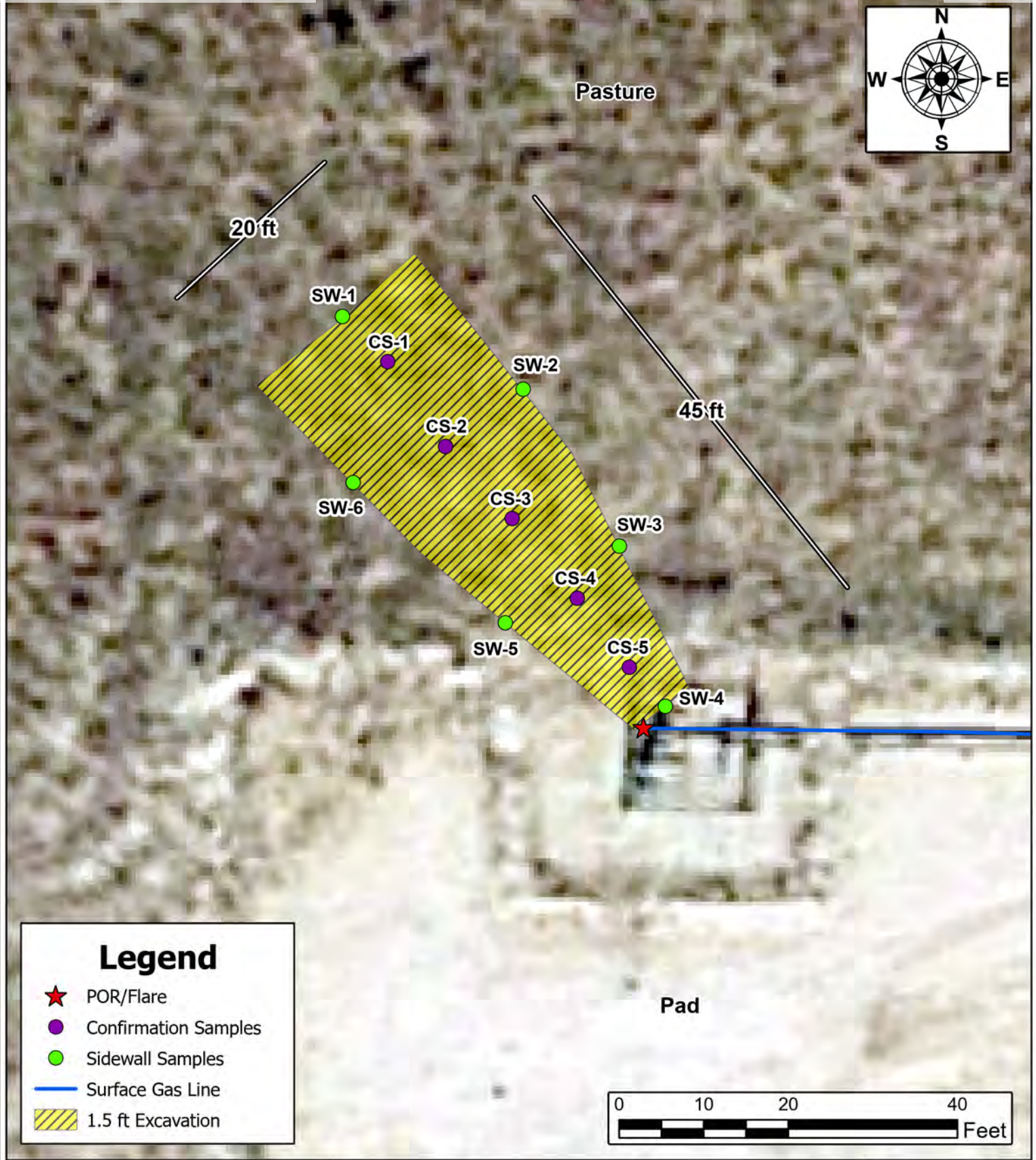
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1



EXCAVATION DEPTH MAP COG OPERATING HAAS 6 FEDERAL COM #1 (06.21.22) LEA COUNTY, NEW MEXICO 32.696167, -103.798522		 Carmona Resources 310 West Wall Street, Suite 415 Midland, Texas 79701	NOTES: 1. Base Image: ESRI Maps & Data 2013 2. Map Projection: NAD 1983 UTM Zone 13N	DRAWING NUMBER:
SCALE: As Shown				FIGURE 4
Date: 8/23/2022				SHEET NUMBER: 1 of 1

APPENDIX A

CARMONA RESOURCES



Table 1
COG
Haas 6 Federal Com #1 (06.21.22)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	
			GRO	DRO	MRO	Total							
S-1	7/21/2022	0-1	<49.9	108	<49.9	108	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	19.7	
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	50.9	
S-2	7/21/2022	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	7.22	
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.37	
S-3	7/21/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<5.01	
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	7.74	
H-1	7/21/2022	0-1'	<50.0	56.0	<50.0	56.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	7.95	
H-2	7/21/2022	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10.3	
H-3	7/21/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	9.97	
H-4	7/21/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	6.66	
Regulatory Criteria ^A							100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

(H) -Horizontal

 Removed

Table 2
COG
Haas 6 Federal Com #1 (06.21.22)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	
			GRO	DRO	MRO	Total							
CS-1	8/18/2022	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	11.1	
CS-2	8/18/2022	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	8.93	
CS-3	8/18/2022	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	13.3	
CS-4	8/18/2022	1.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	14.7	
CS-5	8/18/2022	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	9.74	
SW-1	8/18/2022	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	12.2	
SW-2	8/18/2022	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	11.2	
SW-3	8/18/2022	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	8.81	
SW-4	8/18/2022	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	11.3	
SW-5	8/18/2022	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	10.6	
SW-6	8/18/2022	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	11.6	
Regulatory Criteria ^A							100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

(SW) Sidewall

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Haas 6 Federal Com #1 (06.21.22)

County: Lea County, New Mexico

Description:

View Northwest, areas of sample points (1-3).



Photograph No. 2

Facility: Haas 6 Federal Com #1 (06.21.22)

County: Lea County, New Mexico

Description:

View Southeast, areas of confirmation samples (1-5).



Photograph No. 3

Facility: Haas 6 Federal Com #1 (06.21.22)

County: Lea County, New Mexico

Description:

View West, areas of confirmation samples (1-5).



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	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

Cause of Release

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

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 _____	Title: _____
Signature: <u></u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>07/07/2022</u>

L48 Spill Volume Estimate Form

NAPP2218849433

Page 18 of 92

Received by OCD: 9/27/2022 9:36:24 AM

Facility Name & Number:	Haas 6 Fed Com #3
Asset Area:	NDBW
Release Discovery Date & Time:	6/21/2022
Release Type:	Oil
Provide any known details about the event:	Flare oil spill

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	5.0	5.0	1.00	2	25.000	0.042	0.185	0.002	0.186			
Rectangle B	30.0	2.0	1.00	1	60.000	0.083	0.890	0.004	0.894			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Total Volume Release:									1.080			

Released to Imaging: 9/27/2022 3:20:54 PM

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 123519

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 123519
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	7/7/2022

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: Jacques Harimon Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 09/27/2022

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Jacqueline Harimon Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 09/27/2022

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: Jennifer Nobui Date: _____

Printed Name: _____ Title: _____

From: Conner Moehring
Sent: Tuesday, August 16, 2022 8:10 AM
To: OCD.Enviro@state.nm.us
Cc: Mike Carmona; Jacqui.Harris@conocophillips.com
Subject: COG - Haas 6 Federal Com #1 (06.21.22) - Sampling Notification

Good Morning,

On behalf of COG, Carmona Resources will collect confirmation samples at the below-referenced site on 08/18/22 around 8:00 a.m. Mountain Time. Please let me know if you have any questions.

Haas 6 Federal Com #1 (06.21.22)
Sec 6 T19S R32E Unit A
32.696167, -103.798522
Lea County, New Mexico

Conner R. Moehring
310 West Wall Street, Suite 415
Midland Texas, 79701
M: 432-813-6823
Cmoehring@carmonaresources.com



APPENDIX D

CARMONA RESOURCES



NEAREST WATER WELL

COG OPERATING

Legend

- 0.50 Mile Radius
- 1.52 Miles
- Haas 6 Federal Com #1 (06.21.22)
- USGS Water Well



Haas 6 Federal Com #1 (06.21.22)

368.30' - Drilled 1958



1 mi

LOW KARST

COG OPERATING

Legend

Haas 6 Federal Com #1 (06.21.22)

Low

126A

Haas 6 Federal Com #1 (06.21.22)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00849 POD1	CP	LE		3	1	3	35	18S	31E	608012	3618757*	4640	300		
CP 01656 POD2	CP	LE		3	4	3	17	19S	32E	613364	3613648	4653	70		
CP 01656 POD1	CP	LE		3	4	3	17	19S	32E	613368	3613646	4656	70		
CP 01656 POD3	CP	LE		3	4	3	17	19S	32E	613374	3613633	4669	30		
CP 00563 POD1	CP	LE		1	1	2	19	19S	32E	612118	3613376*	4892	300		
CP 00640 POD1	CP	LE			2	2	19	19S	32E	612621	3613280*	4962	260	102	158
CP 00639 POD1	CP	LE			3	1	20	19S	32E	613029	3612880*	5378	350	345	5

Average Depth to Water: **223 feet**

Minimum Depth: **102 feet**

Maximum Depth: **345 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 612623.67

Northing (Y): 3618242.74

Radius: 6000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/25/22 10:03 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324046103464101

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

USGS 324046103464101 19S.32E.08.2

Lea County, New Mexico
Latitude 32°40'42", Longitude 103°47'00" NAD27
Land-surface elevation 3,640 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1958-12-10			D	62610	3271.70	NGVD29	1	O	USGS	
1958-12-10			D	62611	3273.26	NAVD88	1	O	USGS	
1958-12-10			D	72019	368.30		1	O	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	O	Observed.

Section	Code	Description
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

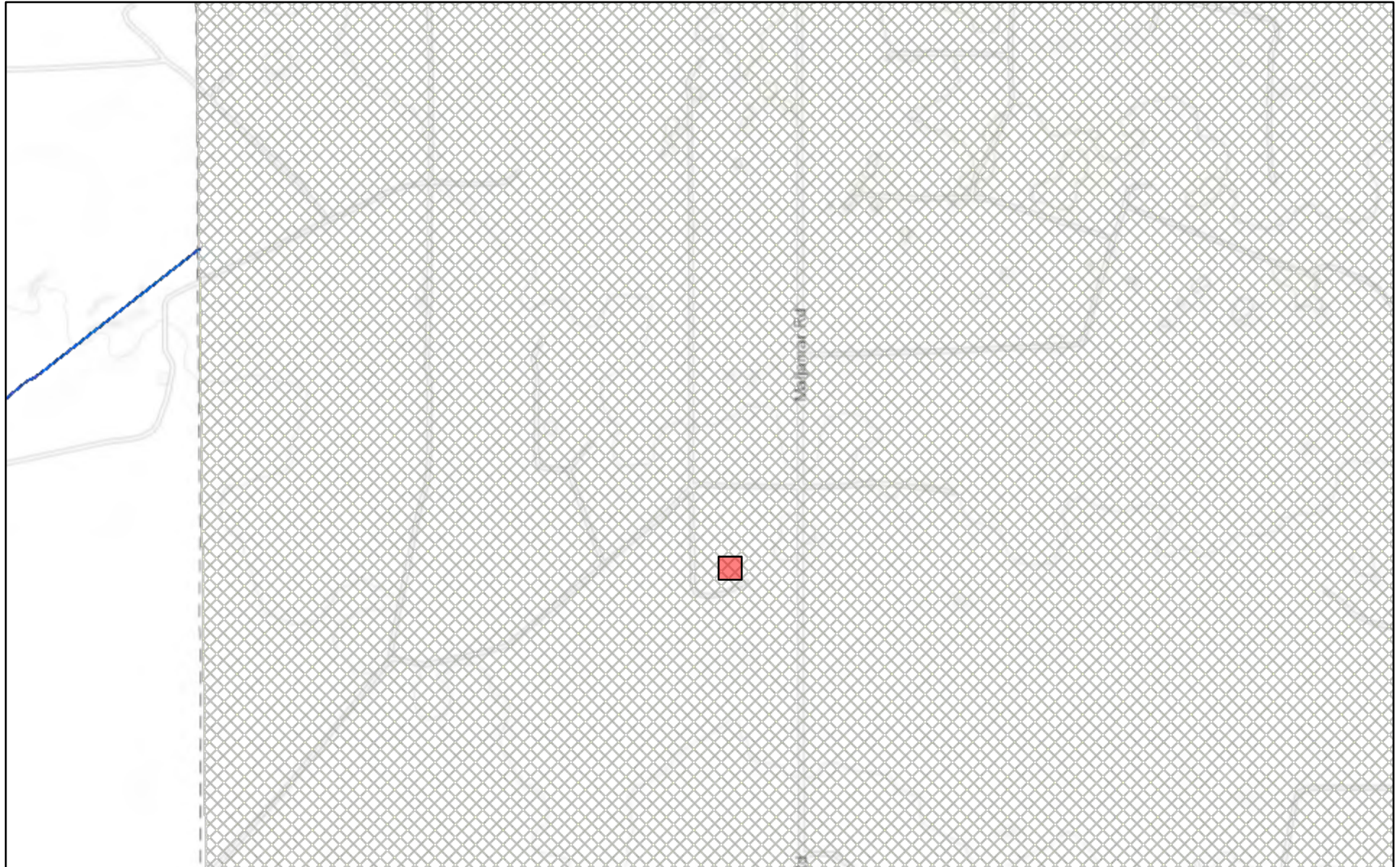
[Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

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

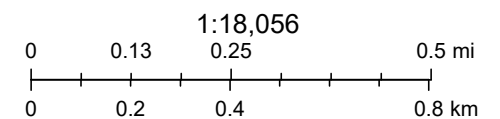


Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2022-07-25 12:05:17 EDT
0.36 0.32 nadww01

New Mexico NFHL Data



July 25, 2022



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

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

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

APPENDIX E

CARMONA RESOURCES





Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-17259-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Haas 6 Federal Com #1 (06.21.22)

For:

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

Attn: Ashton Thielke

A handwritten signature in black ink, appearing to read "Jessica Kramer".

Authorized for release by:

7/25/2022 4:08:22 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Laboratory Job ID: 880-17259-1
SDG: Lea Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	18
Lab Chronicle	21
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	29

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Job ID: 880-17259-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-17259-1**

Receipt

The samples were received on 7/22/2022 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-30350 and analytical batch 880-30483 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample 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.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-30505 and analytical batch 880-30512 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.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30399 and analytical batch 880-30427 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: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-17259-1

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		07/22/22 10:06	07/24/22 15:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/22/22 10:06	07/24/22 15:52	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		07/22/22 10:06	07/24/22 15:52	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		07/22/22 10:06	07/24/22 15:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/22/22 10:06	07/24/22 15:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/22/22 10:06	07/24/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/22/22 10:06	07/24/22 15:52	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/22/22 10:06	07/24/22 15:52	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			07/25/22 11:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.0		50.0		mg/Kg			07/25/22 17:00	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 F1	50.0		mg/Kg		07/25/22 08:46	07/25/22 12:08	1
Diesel Range Organics (Over C10-C28)	56.0	F1 F2	50.0		mg/Kg		07/25/22 08:46	07/25/22 12:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/25/22 08:46	07/25/22 12:08	1
o-Terphenyl	85		70 - 130				07/25/22 08:46	07/25/22 12:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.95	F1	4.97		mg/Kg			07/24/22 08:04	1

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-17259-2

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/22/22 10:06	07/24/22 16:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/22/22 10:06	07/24/22 16:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/22/22 10:06	07/24/22 16:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/22/22 10:06	07/24/22 16:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/22/22 10:06	07/24/22 16:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/22/22 10:06	07/24/22 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/22/22 10:06	07/24/22 16:12	1
1,4-Difluorobenzene (Surr)	106		70 - 130	07/22/22 10:06	07/24/22 16:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-17259-2

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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			07/25/22 11:14	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			07/25/22 17:00	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		07/25/22 08:46	07/25/22 13:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/25/22 08:46	07/25/22 13:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/25/22 08:46	07/25/22 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	54	S1-	70 - 130				07/25/22 08:46	07/25/22 13:12	1
o-Terphenyl	50	S1-	70 - 130				07/25/22 08:46	07/25/22 13:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.3		4.95		mg/Kg			07/24/22 08:32	1

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-17259-3

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/22/22 10:06	07/24/22 16:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/22/22 10:06	07/24/22 16:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/22/22 10:06	07/24/22 16:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/22/22 10:06	07/24/22 16:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/22/22 10:06	07/24/22 16:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/22/22 10:06	07/24/22 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				07/22/22 10:06	07/24/22 16:33	1
1,4-Difluorobenzene (Surr)	102		70 - 130				07/22/22 10:06	07/24/22 16:33	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			07/25/22 11:14	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			07/25/22 17:00	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		07/25/22 08:46	07/25/22 13:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 13:36	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-17259-3

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/25/22 08:46	07/25/22 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				07/25/22 08:46	07/25/22 13:36	1
o-Terphenyl	94		70 - 130				07/25/22 08:46	07/25/22 13:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.97		5.04		mg/Kg			07/24/22 08:41	1

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-17259-4

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/22/22 10:06	07/24/22 16:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 16:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 16:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/22/22 10:06	07/24/22 16:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 16:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/22/22 10:06	07/24/22 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/22/22 10:06	07/24/22 16:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130				07/22/22 10:06	07/24/22 16:53	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			07/25/22 11:14	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			07/25/22 17:00	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		07/25/22 08:46	07/25/22 13:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 13:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/25/22 08:46	07/25/22 13:57	1
o-Terphenyl	86		70 - 130				07/25/22 08:46	07/25/22 13:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.66		4.96		mg/Kg			07/24/22 09:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-17259-5

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/22/22 10:06	07/24/22 17:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/22/22 10:06	07/24/22 17:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/22/22 10:06	07/24/22 17:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/22/22 10:06	07/24/22 17:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/22/22 10:06	07/24/22 17:14	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/22/22 10:06	07/24/22 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/22/22 10:06	07/24/22 17:14	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/22/22 10:06	07/24/22 17:14	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			07/25/22 11:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	108		49.9		mg/Kg			07/25/22 17:00	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		07/25/22 08:46	07/25/22 14:18	1
Diesel Range Organics (Over C10-C28)	108		49.9		mg/Kg		07/25/22 08:46	07/25/22 14:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/25/22 08:46	07/25/22 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	07/25/22 08:46	07/25/22 14:18	1
o-Terphenyl	80		70 - 130	07/25/22 08:46	07/25/22 14:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.7		4.99		mg/Kg			07/24/22 09:18	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-17259-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/22/22 10:06	07/24/22 17:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 17:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 17:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/22/22 10:06	07/24/22 17:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 17:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/22/22 10:06	07/24/22 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	07/22/22 10:06	07/24/22 17:34	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/22/22 10:06	07/24/22 17:34	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-17259-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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			07/25/22 11:14	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			07/25/22 17:00	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		07/25/22 08:46	07/25/22 14:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/25/22 08:46	07/25/22 14:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/25/22 08:46	07/25/22 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				07/25/22 08:46	07/25/22 14:40	1
o-Terphenyl	103		70 - 130				07/25/22 08:46	07/25/22 14:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9		5.00		mg/Kg			07/24/22 09:27	1

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

Lab Sample ID: 880-17259-7

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/22/22 10:06	07/24/22 17:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/22/22 10:06	07/24/22 17:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/22/22 10:06	07/24/22 17:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/22/22 10:06	07/24/22 17:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/22/22 10:06	07/24/22 17:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/22/22 10:06	07/24/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/22/22 10:06	07/24/22 17:54	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/22/22 10:06	07/24/22 17:54	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			07/25/22 11:14	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			07/25/22 17:00	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		07/25/22 08:46	07/25/22 15:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/25/22 08:46	07/25/22 15:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-17259-7

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/25/22 08:46	07/25/22 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/25/22 08:46	07/25/22 15:01	1
o-Terphenyl	84		70 - 130				07/25/22 08:46	07/25/22 15:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.22		5.04		mg/Kg			07/24/22 09:37	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-17259-8

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/22/22 10:06	07/24/22 18:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/22/22 10:06	07/24/22 18:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/22/22 10:06	07/24/22 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/22/22 10:06	07/24/22 18:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/22/22 10:06	07/24/22 18:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/22/22 10:06	07/24/22 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				07/22/22 10:06	07/24/22 18:15	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/22/22 10:06	07/24/22 18:15	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			07/25/22 11:14	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			07/25/22 17:00	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		07/25/22 08:46	07/25/22 15:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/25/22 08:46	07/25/22 15:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/25/22 08:46	07/25/22 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				07/25/22 08:46	07/25/22 15:22	1
o-Terphenyl	76		70 - 130				07/25/22 08:46	07/25/22 15:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.37		4.96		mg/Kg			07/24/22 09:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-17259-9

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/22/22 10:06	07/24/22 18:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 18:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 18:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/22/22 10:06	07/24/22 18:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 18:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/22/22 10:06	07/24/22 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/22/22 10:06	07/24/22 18:35	1
1,4-Difluorobenzene (Surr)	106		70 - 130	07/22/22 10:06	07/24/22 18:35	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			07/25/22 11:14	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			07/25/22 17:00	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		07/25/22 08:46	07/25/22 15:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 15:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	07/25/22 08:46	07/25/22 15:44	1
o-Terphenyl	84		70 - 130	07/25/22 08:46	07/25/22 15:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			07/24/22 09:55	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-17259-10

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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		07/22/22 10:06	07/24/22 18:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/22/22 10:06	07/24/22 18:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/22/22 10:06	07/24/22 18:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/22/22 10:06	07/24/22 18:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/22/22 10:06	07/24/22 18:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/22/22 10:06	07/24/22 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	07/22/22 10:06	07/24/22 18:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130	07/22/22 10:06	07/24/22 18:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-17259-10

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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			07/25/22 11:14	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			07/25/22 17:00	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		07/25/22 08:46	07/25/22 16:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 16:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				07/25/22 08:46	07/25/22 16:05	1
o-Terphenyl	70		70 - 130				07/25/22 08:46	07/25/22 16:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.74		4.97		mg/Kg			07/24/22 10:04	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-17259-1	H-1 (0-0.5')	101	95
880-17259-1 MS	H-1 (0-0.5')	109	101
880-17259-1 MSD	H-1 (0-0.5')	104	100
880-17259-2	H-2 (0-0.5')	98	106
880-17259-3	H-3 (0-0.5')	104	102
880-17259-4	H-4 (0-0.5')	103	105
880-17259-5	S-1 (0-1')	92	98
880-17259-6	S-1 (1.5')	79	103
880-17259-7	S-2 (0-1')	105	100
880-17259-8	S-2 (1.5')	98	101
880-17259-9	S-3 (0-1')	101	106
880-17259-10	S-3 (1.5')	95	104
LCS 880-30350/1-A	Lab Control Sample	97	98
LCSD 880-30350/2-A	Lab Control Sample Dup	103	101
MB 880-30350/5-A	Method Blank	97	104
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)
880-17259-1	H-1 (0-0.5')	84	85
880-17259-1 MS	H-1 (0-0.5')	74	66 S1-
880-17259-1 MSD	H-1 (0-0.5')	54 S1-	48 S1-
880-17259-2	H-2 (0-0.5')	54 S1-	50 S1-
880-17259-3	H-3 (0-0.5')	95	94
880-17259-4	H-4 (0-0.5')	91	86
880-17259-5	S-1 (0-1')	79	80
880-17259-6	S-1 (1.5')	98	103
880-17259-7	S-2 (0-1')	84	84
880-17259-8	S-2 (1.5')	73	76
880-17259-9	S-3 (0-1')	89	84
880-17259-10	S-3 (1.5')	73	70
LCS 880-30505/2-A	Lab Control Sample	92	89
LCSD 880-30505/3-A	Lab Control Sample Dup	87	87
MB 880-30505/1-A	Method Blank	111	125
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-30350/5-A

Matrix: Solid

Analysis Batch: 30483

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 15:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 15:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 15:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/22/22 10:06	07/24/22 15:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:06	07/24/22 15:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/22/22 10:06	07/24/22 15:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/22/22 10:06	07/24/22 15:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130	07/22/22 10:06	07/24/22 15:23	1

Lab Sample ID: LCS 880-30350/1-A

Matrix: Solid

Analysis Batch: 30483

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08487		mg/Kg		85	70 - 130
Toluene	0.100	0.1002		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.08682		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1762		mg/Kg		88	70 - 130
o-Xylene	0.100	0.1030		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-30350/2-A

Matrix: Solid

Analysis Batch: 30483

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09882		mg/Kg		99	70 - 130	15	35
Toluene	0.100	0.1067		mg/Kg		107	70 - 130	6	35
Ethylbenzene	0.100	0.09188		mg/Kg		92	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1862		mg/Kg		93	70 - 130	5	35
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-17259-1 MS

Matrix: Solid

Analysis Batch: 30483

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 30350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0992	0.06797	F1	mg/Kg		68	70 - 130
Toluene	<0.00201	U	0.0992	0.07543		mg/Kg		76	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-17259-1 MS

Matrix: Solid

Analysis Batch: 30483

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 30350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.0992	0.06347	F1	mg/Kg		63	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1307	F1	mg/Kg		65	70 - 130
o-Xylene	<0.00201	U	0.0992	0.07841		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-17259-1 MSD

Matrix: Solid

Analysis Batch: 30483

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 30350

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0994	0.07726		mg/Kg		77	70 - 130	13	35
Toluene	<0.00201	U	0.0994	0.08434		mg/Kg		85	70 - 130	11	35
Ethylbenzene	<0.00201	U F1	0.0994	0.07131		mg/Kg		70	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1455		mg/Kg		72	70 - 130	11	35
o-Xylene	<0.00201	U	0.0994	0.08518		mg/Kg		86	70 - 130	8	35

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

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

Lab Sample ID: MB 880-30505/1-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30505

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		07/25/22 08:46	07/25/22 11:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 11:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 11:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	07/25/22 08:46	07/25/22 11:04	1
o-Terphenyl	125		70 - 130	07/25/22 08:46	07/25/22 11:04	1

Lab Sample ID: LCS 880-30505/2-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	946.1		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1149		mg/Kg		115	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-30505/2-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30505

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: LCSD 880-30505/3-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30505

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	907.5		mg/Kg		91	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)			1000	1081		mg/Kg		108	70 - 130	6	20	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	87		70 - 130									
o-Terphenyl	87		70 - 130									

Lab Sample ID: 880-17259-1 MS

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 30505

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1000	713.3	F1	mg/Kg		67	70 - 130			
Diesel Range Organics (Over C10-C28)	56.0	F1 F2	1000	728.6	F1	mg/Kg		67	70 - 130			
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	74		70 - 130									
o-Terphenyl	66	S1-	70 - 130									

Lab Sample ID: 880-17259-1 MSD

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 30505

	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 F1	999	693.1	F1	mg/Kg		65	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	56.0	F1 F2	999	533.6	F1 F2	mg/Kg		48	70 - 130	31	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	54	S1-	70 - 130									
o-Terphenyl	48	S1-	70 - 130									

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30399/1-A

Matrix: Solid

Analysis Batch: 30427

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			07/24/22 05:28	1

Lab Sample ID: LCS 880-30399/2-A

Matrix: Solid

Analysis Batch: 30427

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265.1		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-30399/3-A

Matrix: Solid

Analysis Batch: 30427

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	267.5		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 880-17259-1 MS

Matrix: Solid

Analysis Batch: 30427

Client Sample ID: H-1 (0-0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.95	F1	249	283.2	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-17259-1 MSD

Matrix: Solid

Analysis Batch: 30427

Client Sample ID: H-1 (0-0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.95	F1	249	284.8	F1	mg/Kg		111	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
 Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
 SDG: Lea Co, NM

GC VOA

Prep Batch: 30350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17259-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-17259-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-17259-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-17259-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-17259-5	S-1 (0-1')	Total/NA	Solid	5035	
880-17259-6	S-1 (1.5')	Total/NA	Solid	5035	
880-17259-7	S-2 (0-1')	Total/NA	Solid	5035	
880-17259-8	S-2 (1.5')	Total/NA	Solid	5035	
880-17259-9	S-3 (0-1')	Total/NA	Solid	5035	
880-17259-10	S-3 (1.5')	Total/NA	Solid	5035	
MB 880-30350/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30350/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30350/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17259-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-17259-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 30483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17259-1	H-1 (0-0.5')	Total/NA	Solid	8021B	30350
880-17259-2	H-2 (0-0.5')	Total/NA	Solid	8021B	30350
880-17259-3	H-3 (0-0.5')	Total/NA	Solid	8021B	30350
880-17259-4	H-4 (0-0.5')	Total/NA	Solid	8021B	30350
880-17259-5	S-1 (0-1')	Total/NA	Solid	8021B	30350
880-17259-6	S-1 (1.5')	Total/NA	Solid	8021B	30350
880-17259-7	S-2 (0-1')	Total/NA	Solid	8021B	30350
880-17259-8	S-2 (1.5')	Total/NA	Solid	8021B	30350
880-17259-9	S-3 (0-1')	Total/NA	Solid	8021B	30350
880-17259-10	S-3 (1.5')	Total/NA	Solid	8021B	30350
MB 880-30350/5-A	Method Blank	Total/NA	Solid	8021B	30350
LCS 880-30350/1-A	Lab Control Sample	Total/NA	Solid	8021B	30350
LCSD 880-30350/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30350
880-17259-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	30350
880-17259-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	30350

Analysis Batch: 30573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17259-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-17259-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-17259-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-17259-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-17259-5	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-17259-6	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-17259-7	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-17259-8	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-17259-9	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-17259-10	S-3 (1.5')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
 Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
 SDG: Lea Co, NM

GC Semi VOA

Prep Batch: 30505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17259-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-17259-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-17259-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-17259-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-17259-5	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-17259-6	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-17259-7	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-17259-8	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-17259-9	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-17259-10	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-30505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17259-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-17259-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 30512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17259-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	30505
880-17259-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	30505
880-17259-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	30505
880-17259-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	30505
880-17259-5	S-1 (0-1')	Total/NA	Solid	8015B NM	30505
880-17259-6	S-1 (1.5')	Total/NA	Solid	8015B NM	30505
880-17259-7	S-2 (0-1')	Total/NA	Solid	8015B NM	30505
880-17259-8	S-2 (1.5')	Total/NA	Solid	8015B NM	30505
880-17259-9	S-3 (0-1')	Total/NA	Solid	8015B NM	30505
880-17259-10	S-3 (1.5')	Total/NA	Solid	8015B NM	30505
MB 880-30505/1-A	Method Blank	Total/NA	Solid	8015B NM	30505
LCS 880-30505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30505
LCSD 880-30505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30505
880-17259-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	30505
880-17259-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	30505

Analysis Batch: 30640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17259-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-17259-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-17259-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-17259-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-17259-5	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-17259-6	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-17259-7	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-17259-8	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-17259-9	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-17259-10	S-3 (1.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

HPLC/IC

Leach Batch: 30399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17259-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-17259-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-17259-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-17259-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-17259-5	S-1 (0-1')	Soluble	Solid	DI Leach	
880-17259-6	S-1 (1.5')	Soluble	Solid	DI Leach	
880-17259-7	S-2 (0-1')	Soluble	Solid	DI Leach	
880-17259-8	S-2 (1.5')	Soluble	Solid	DI Leach	
880-17259-9	S-3 (0-1')	Soluble	Solid	DI Leach	
880-17259-10	S-3 (1.5')	Soluble	Solid	DI Leach	
MB 880-30399/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30399/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30399/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17259-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-17259-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 30427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17259-1	H-1 (0-0.5')	Soluble	Solid	300.0	30399
880-17259-2	H-2 (0-0.5')	Soluble	Solid	300.0	30399
880-17259-3	H-3 (0-0.5')	Soluble	Solid	300.0	30399
880-17259-4	H-4 (0-0.5')	Soluble	Solid	300.0	30399
880-17259-5	S-1 (0-1')	Soluble	Solid	300.0	30399
880-17259-6	S-1 (1.5')	Soluble	Solid	300.0	30399
880-17259-7	S-2 (0-1')	Soluble	Solid	300.0	30399
880-17259-8	S-2 (1.5')	Soluble	Solid	300.0	30399
880-17259-9	S-3 (0-1')	Soluble	Solid	300.0	30399
880-17259-10	S-3 (1.5')	Soluble	Solid	300.0	30399
MB 880-30399/1-A	Method Blank	Soluble	Solid	300.0	30399
LCS 880-30399/2-A	Lab Control Sample	Soluble	Solid	300.0	30399
LCSD 880-30399/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30399
880-17259-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	30399
880-17259-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	30399

Lab Chronicle

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-17259-1

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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	30350	07/22/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30483	07/24/22 15:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30573	07/25/22 11:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30640	07/25/22 17:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 12:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30399	07/22/22 11:46	SMC	XEN MID
Soluble	Analysis	300.0		1			30427	07/24/22 08:04	CH	XEN MID

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-17259-2

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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	30350	07/22/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30483	07/24/22 16:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30573	07/25/22 11:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30640	07/25/22 17:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30399	07/22/22 11:46	SMC	XEN MID
Soluble	Analysis	300.0		1			30427	07/24/22 08:32	CH	XEN MID

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-17259-3

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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	30350	07/22/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30483	07/24/22 16:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30573	07/25/22 11:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30640	07/25/22 17:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 13:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	30399	07/22/22 11:46	SMC	XEN MID
Soluble	Analysis	300.0		1			30427	07/24/22 08:41	CH	XEN MID

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-17259-4

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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	30350	07/22/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30483	07/24/22 16:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30573	07/25/22 11:14	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-17259-4

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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			30640	07/25/22 17:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30399	07/22/22 11:46	SMC	XEN MID
Soluble	Analysis	300.0		1			30427	07/24/22 09:09	CH	XEN MID

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

Lab Sample ID: 880-17259-5

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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	30350	07/22/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30483	07/24/22 17:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30573	07/25/22 11:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30640	07/25/22 17:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30399	07/22/22 11:46	SMC	XEN MID
Soluble	Analysis	300.0		1			30427	07/24/22 09:18	CH	XEN MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-17259-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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	30350	07/22/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30483	07/24/22 17:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30573	07/25/22 11:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30640	07/25/22 17:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 14:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30399	07/22/22 11:46	SMC	XEN MID
Soluble	Analysis	300.0		1			30427	07/24/22 09:27	CH	XEN MID

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

Lab Sample ID: 880-17259-7

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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	30350	07/22/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30483	07/24/22 17:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30573	07/25/22 11:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30640	07/25/22 17:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 15:01	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-17259-7

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	30399	07/22/22 11:46	SMC	XEN MID
Soluble	Analysis	300.0		1			30427	07/24/22 09:37	CH	XEN MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-17259-8

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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	30350	07/22/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30483	07/24/22 18:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30573	07/25/22 11:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30640	07/25/22 17:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30399	07/22/22 11:46	SMC	XEN MID
Soluble	Analysis	300.0		1			30427	07/24/22 09:46	CH	XEN MID

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

Lab Sample ID: 880-17259-9

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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	30350	07/22/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30483	07/24/22 18:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30573	07/25/22 11:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30640	07/25/22 17:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 15:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	30399	07/22/22 11:46	SMC	XEN MID
Soluble	Analysis	300.0		1			30427	07/24/22 09:55	CH	XEN MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-17259-10

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 09:34

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	30350	07/22/22 10:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30483	07/24/22 18:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30573	07/25/22 11:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30640	07/25/22 17:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 16:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30399	07/22/22 11:46	SMC	XEN MID
Soluble	Analysis	300.0		1			30427	07/24/22 10:04	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Laboratory References:

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
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: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN 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:

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

Sample Summary

Client: Carmona Resources
Project/Site: Haas 6 Federal Com #1 (06.21.22)

Job ID: 880-17259-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-17259-1	H-1 (0-0.5')	Solid	07/21/22 00:00	07/22/22 09:34
880-17259-2	H-2 (0-0.5')	Solid	07/21/22 00:00	07/22/22 09:34
880-17259-3	H-3 (0-0.5')	Solid	07/21/22 00:00	07/22/22 09:34
880-17259-4	H-4 (0-0.5')	Solid	07/21/22 00:00	07/22/22 09:34
880-17259-5	S-1 (0-1')	Solid	07/21/22 00:00	07/22/22 09:34
880-17259-6	S-1 (1.5')	Solid	07/21/22 00:00	07/22/22 09:34
880-17259-7	S-2 (0-1')	Solid	07/21/22 00:00	07/22/22 09:34
880-17259-8	S-2 (1.5')	Solid	07/21/22 00:00	07/22/22 09:34
880-17259-9	S-3 (0-1')	Solid	07/21/22 00:00	07/22/22 09:34
880-17259-10	S-3 (1.5')	Solid	07/21/22 00:00	07/22/22 09:34

Work Order No: 17259Page 1 of 1

Project Manager: Ashton Thielke		Bill to: (if different)		Jacqui Harris	
Company Name: Carmona Resources		Company Name:		COG	
Address: 310 W Wall St Ste 415		Address:		15 W London Rd	
City, State ZIP: Midland, TX 79701		City, State ZIP:		Loving, NM 88256	
Phone: 432-813-6823		Email: jacqui.harris@conocophillips.com			

Project Name: Haas 6 Federal Com #1 (06 21 22)		Turn Around		Pres. Code	
Project Number: 1092		Routine ☒ Rush			
Project Location: Lea Co, NM		Due Date: 72 HR			
Sampler's Name: AT		TAT starts the day received by the lab if received by 4 30pm			
PO #:					

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments	
							Temp Blank	Yes No	Wet Ice		
H-1 (0-0 5')	7/21/2022		X		Grab/	1				None NO	DI Water H ₂ O
H-2 (0-0 5')	7/21/2022		X		Grab/	1				Cool Cool	MeOH Me
H-3 (0-0 5')	7/21/2022		X		Grab/	1				HCL HC	HNO ₃ HN
H-4 (0-0 5')	7/21/2022		X		Grab/	1				H ₂ SO ₄ H ₂	NaOH Na
S-1 (0-1')	7/21/2022		X		Grab/	1				H ₃ PO ₄ HP	
S-1 (1 5')	7/21/2022		X		Grab/	1				NaHSO ₄ NABIS	
S-2 (0-1')	7/21/2022		X		Grab/	1				Na ₂ S ₂ O ₃ NaSO ₃	
S-2 (1 5')	7/21/2022		X		Grab/	1				Zn Acetate+NaOH Zn	
S-3 (0-1')	7/21/2022		X		Grab/	1				NaOH+Ascorbic Acid	SAPC
S-3 (1 5')	7/21/2022		X		Grab/	1					



Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	7/25/22 9:34		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-17259-1

SDG Number: Lea Co, NM

Login Number: 17259

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-18313-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Haas 6 Fderal Com #1 (06.21.22)

For:

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

Attn: Ashton Thielke

Authorized for release by:

8/20/2022 10:18:44 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Laboratory Job ID: 880-18313-1
SDG: Lea Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	14
QC Sample Results	15
QC Association Summary	19
Lab Chronicle	22
Certification Summary	26
Method Summary	27
Sample Summary	28
Chain of Custody	29
Receipt Checklists	31

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Job ID: 880-18313-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-18313-1****Receipt**

The samples were received on 8/18/2022 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32516 and analytical batch 880-32427 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.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32428 and analytical batch 880-32384 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.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: CS-1 (1.5)

Lab Sample ID: 880-18313-1

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 15:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:34	1
m-Xylene & p-Xylene	<0.00400	U F1	0.00400		mg/Kg		08/19/22 13:53	08/19/22 15:34	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:34	1
Xylenes, Total	<0.00400	U F1	0.00400		mg/Kg		08/19/22 13:53	08/19/22 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/19/22 13:53	08/19/22 15:34	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/19/22 13:53	08/19/22 15:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/18/22 22:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		08/18/22 13:42	08/18/22 22:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/18/22 13:42	08/18/22 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	08/18/22 13:42	08/18/22 22:05	1
o-Terphenyl	99		70 - 130	08/18/22 13:42	08/18/22 22:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1		4.95		mg/Kg			08/19/22 04:29	1

Client Sample ID: CS-2 (1.5)

Lab Sample ID: 880-18313-2

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 17:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 17:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 17:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 17:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 17:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/19/22 13:53	08/19/22 17:17	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/19/22 13:53	08/19/22 17:17	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: CS-2 (1.5)

Lab Sample ID: 880-18313-2

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/18/22 23:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/18/22 13:42	08/18/22 23:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/18/22 13:42	08/18/22 23:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				08/18/22 13:42	08/18/22 23:10	1
o-Terphenyl	88		70 - 130				08/18/22 13:42	08/18/22 23:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.93		5.04		mg/Kg			08/19/22 04:37	1

Client Sample ID: CS-3 (1.5)

Lab Sample ID: 880-18313-3

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 17:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/19/22 13:53	08/19/22 17:37	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/19/22 13:53	08/19/22 17:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/18/22 23:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/18/22 23:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: CS-3 (1.5)

Lab Sample ID: 880-18313-3

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/18/22 13:42	08/18/22 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/18/22 13:42	08/18/22 23:32	1
o-Terphenyl	72		70 - 130				08/18/22 13:42	08/18/22 23:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		4.99		mg/Kg			08/19/22 04:45	1

Client Sample ID: CS-4 (1.5)

Lab Sample ID: 880-18313-4

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 17:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 17:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 17:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 17:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 17:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/19/22 13:53	08/19/22 17:58	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/19/22 13:53	08/19/22 17:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/18/22 23:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/18/22 13:42	08/18/22 23:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/18/22 13:42	08/18/22 23:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				08/18/22 13:42	08/18/22 23:54	1
o-Terphenyl	94		70 - 130				08/18/22 13:42	08/18/22 23:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.7		5.03		mg/Kg			08/19/22 04:53	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: CS-5 (1.5)

Lab Sample ID: 880-18313-5

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 18:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 18:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 18:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 18:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 18:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	08/19/22 13:53	08/19/22 18:18	1
1,4-Difluorobenzene (Surr)	123		70 - 130	08/19/22 13:53	08/19/22 18:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/19/22 00:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/19/22 00:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/19/22 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/18/22 13:42	08/19/22 00:15	1
o-Terphenyl	100		70 - 130	08/18/22 13:42	08/19/22 00:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.74		5.00		mg/Kg			08/19/22 05:01	1

Client Sample ID: SW-1 (1.5)

Lab Sample ID: 880-18313-6

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 18:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 18:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 18:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 18:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 18:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	08/19/22 13:53	08/19/22 18:39	1
1,4-Difluorobenzene (Surr)	123		70 - 130	08/19/22 13:53	08/19/22 18:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: SW-1 (1.5)

Lab Sample ID: 880-18313-6

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/19/22 00:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/19/22 00:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/19/22 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/18/22 13:42	08/19/22 00:37	1
o-Terphenyl	91		70 - 130				08/18/22 13:42	08/19/22 00:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.2		4.97		mg/Kg			08/19/22 05:24	1

Client Sample ID: SW-2 (1.5)

Lab Sample ID: 880-18313-7

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 20:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 20:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 20:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 20:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 20:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				08/19/22 13:53	08/19/22 20:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/19/22 13:53	08/19/22 20:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/19/22 00:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/19/22 00:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: SW-2 (1.5)

Lab Sample ID: 880-18313-7

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/18/22 13:42	08/19/22 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/18/22 13:42	08/19/22 00:59	1
o-Terphenyl	76		70 - 130				08/18/22 13:42	08/19/22 00:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.2		5.04		mg/Kg			08/19/22 05:32	1

Client Sample ID: SW-3 (1.5)

Lab Sample ID: 880-18313-8

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 20:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 20:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 20:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 20:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 20:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				08/19/22 13:53	08/19/22 20:49	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/19/22 13:53	08/19/22 20:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/19/22 01:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/19/22 01:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/19/22 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				08/18/22 13:42	08/19/22 01:21	1
o-Terphenyl	93		70 - 130				08/18/22 13:42	08/19/22 01:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.81		5.02		mg/Kg			08/19/22 05:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: SW-4 (1.5)

Lab Sample ID: 880-18313-9

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 21:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 21:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 21:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 21:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 21:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/19/22 13:53	08/19/22 21:09	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/19/22 13:53	08/19/22 21:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/19/22 01:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/19/22 01:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/19/22 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/18/22 13:42	08/19/22 01:43	1
o-Terphenyl	88		70 - 130	08/18/22 13:42	08/19/22 01:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		5.00		mg/Kg			08/19/22 06:03	1

Client Sample ID: SW-5 (1.5)

Lab Sample ID: 880-18313-10

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 21:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 21:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 21:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 21:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 21:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	08/19/22 13:53	08/19/22 21:30	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/19/22 13:53	08/19/22 21:30	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: SW-5 (1.5)

Lab Sample ID: 880-18313-10

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/19/22 02:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/18/22 13:42	08/19/22 02:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/18/22 13:42	08/19/22 02:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/18/22 13:42	08/19/22 02:05	1
o-Terphenyl	82		70 - 130				08/18/22 13:42	08/19/22 02:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.6		5.00		mg/Kg			08/19/22 06:11	1

Client Sample ID: SW-6 (1.5)

Lab Sample ID: 880-18313-11

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/19/22 13:53	08/19/22 21:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 21:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 21:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 21:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 21:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 21:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/19/22 13:53	08/19/22 21:50	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/19/22 13:53	08/19/22 21:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/19/22 18:14	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			08/19/22 10:03	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		08/18/22 13:42	08/19/22 02:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/18/22 13:42	08/19/22 02:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: SW-6 (1.5)

Lab Sample ID: 880-18313-11

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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		08/18/22 13:42	08/19/22 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	08/18/22 13:42	08/19/22 02:48	1
o-Terphenyl	95		70 - 130	08/18/22 13:42	08/19/22 02:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		4.98		mg/Kg			08/19/22 06:19	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-18313-1	CS-1 (1.5)	94	105
880-18313-1 MS	CS-1 (1.5)	93	101
880-18313-1 MSD	CS-1 (1.5)	72	120
880-18313-2	CS-2 (1.5)	104	105
880-18313-3	CS-3 (1.5)	101	102
880-18313-4	CS-4 (1.5)	95	99
880-18313-5	CS-5 (1.5)	71	123
880-18313-6	SW-1 (1.5)	66 S1-	123
880-18313-7	SW-2 (1.5)	98	101
880-18313-8	SW-3 (1.5)	96	104
880-18313-9	SW-4 (1.5)	102	102
880-18313-10	SW-5 (1.5)	72	119
880-18313-11	SW-6 (1.5)	101	96
LCS 880-32516/1-A	Lab Control Sample	102	96
LCSD 880-32516/2-A	Lab Control Sample Dup	104	97
MB 880-32444/5-A	Method Blank	78	117
MB 880-32516/5-A	Method Blank	79	119
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)
880-18313-1	CS-1 (1.5)	102	99
880-18313-1 MS	CS-1 (1.5)	117	94
880-18313-1 MSD	CS-1 (1.5)	101	90
880-18313-2	CS-2 (1.5)	100	88
880-18313-3	CS-3 (1.5)	86	72
880-18313-4	CS-4 (1.5)	105	94
880-18313-5	CS-5 (1.5)	107	100
880-18313-6	SW-1 (1.5)	107	91
880-18313-7	SW-2 (1.5)	90	76
880-18313-8	SW-3 (1.5)	103	93
880-18313-9	SW-4 (1.5)	101	88
880-18313-10	SW-5 (1.5)	98	82
880-18313-11	SW-6 (1.5)	113	95
LCS 880-32428/2-A	Lab Control Sample	92	92
LCSD 880-32428/3-A	Lab Control Sample Dup	91	92
MB 880-32428/1-A	Method Blank	99	95
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32444/5-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 15:07	08/19/22 03:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 15:07	08/19/22 03:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 15:07	08/19/22 03:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 15:07	08/19/22 03:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 15:07	08/19/22 03:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 15:07	08/19/22 03:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	08/18/22 15:07	08/19/22 03:29	1
1,4-Difluorobenzene (Surr)	117		70 - 130	08/18/22 15:07	08/19/22 03:29	1

Lab Sample ID: MB 880-32516/5-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 15:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 15:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/19/22 13:53	08/19/22 15:05	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/19/22 13:53	08/19/22 15:05	1

Lab Sample ID: LCS 880-32516/1-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09993		mg/Kg		100	70 - 130
Toluene	0.100	0.1121		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1132		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2131		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1118		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-32516/2-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1086		mg/Kg		108	70 - 130	8	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-32516/2-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1189		mg/Kg		119	70 - 130	6	35
Ethylbenzene	0.100	0.1198		mg/Kg		120	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2240		mg/Kg		112	70 - 130	5	35
o-Xylene	0.100	0.1177		mg/Kg		117	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-18313-1 MS

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: CS-1 (1.5)

Prep Type: Total/NA

Prep Batch: 32516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08141		mg/Kg		81	70 - 130
Toluene	<0.00200	U	0.100	0.08429		mg/Kg		84	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08208		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.201	0.1472		mg/Kg		73	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.07709		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-18313-1 MSD

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: CS-1 (1.5)

Prep Type: Total/NA

Prep Batch: 32516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1162		mg/Kg		117	70 - 130	35	35
Toluene	<0.00200	U	0.0996	0.08230		mg/Kg		83	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0996	0.07456		mg/Kg		75	70 - 130	10	35
m-Xylene & p-Xylene	<0.00400	U F1	0.199	0.1196	F1	mg/Kg		60	70 - 130	21	35
o-Xylene	<0.00200	U F1	0.0996	0.06179	F1	mg/Kg		62	70 - 130	22	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	72		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

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

Lab Sample ID: MB 880-32428/1-A

Matrix: Solid

Analysis Batch: 32384

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32428

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		08/18/22 13:42	08/18/22 20:59	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-32428/1-A

Matrix: Solid

Analysis Batch: 32384

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/18/22 20:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/22 13:42	08/18/22 20:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/18/22 13:42	08/18/22 20:59	1
o-Terphenyl	95		70 - 130				08/18/22 13:42	08/18/22 20:59	1

Lab Sample ID: LCS 880-32428/2-A

Matrix: Solid

Analysis Batch: 32384

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	846.5		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	875.0		mg/Kg		87	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	92		70 - 130				
o-Terphenyl	92		70 - 130				

Lab Sample ID: LCSD 880-32428/3-A

Matrix: Solid

Analysis Batch: 32384

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	845.7		mg/Kg		85	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	873.5		mg/Kg		87	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	91		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: 880-18313-1 MS

Matrix: Solid

Analysis Batch: 32384

Client Sample ID: CS-1 (1.5)

Prep Type: Total/NA

Prep Batch: 32428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1318		mg/Kg		128	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1330	F1	mg/Kg		133	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	117		70 - 130						
o-Terphenyl	94		70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-18313-1 MSD

Matrix: Solid

Analysis Batch: 32384

Client Sample ID: CS-1 (1.5)

Prep Type: Total/NA

Prep Batch: 32428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1320		mg/Kg		129	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1298		mg/Kg		130	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	90		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32301/1-A

Matrix: Solid

Analysis Batch: 32431

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			08/18/22 13:17	1

Lab Sample ID: LCS 880-32301/2-A

Matrix: Solid

Analysis Batch: 32431

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.4		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-32301/3-A

Matrix: Solid

Analysis Batch: 32431

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	236.6		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-18313-5 MS

Matrix: Solid

Analysis Batch: 32431

Client Sample ID: CS-5 (1.5)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9.74		250	262.7		mg/Kg		101	90 - 110

Lab Sample ID: 880-18313-5 MSD

Matrix: Solid

Analysis Batch: 32431

Client Sample ID: CS-5 (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	9.74		250	262.2		mg/Kg		101	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
 Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
 SDG: Lea Co, NM

GC VOA

Analysis Batch: 32427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18313-1	CS-1 (1.5)	Total/NA	Solid	8021B	32516
880-18313-2	CS-2 (1.5)	Total/NA	Solid	8021B	32516
880-18313-3	CS-3 (1.5)	Total/NA	Solid	8021B	32516
880-18313-4	CS-4 (1.5)	Total/NA	Solid	8021B	32516
880-18313-5	CS-5 (1.5)	Total/NA	Solid	8021B	32516
880-18313-6	SW-1 (1.5)	Total/NA	Solid	8021B	32516
880-18313-7	SW-2 (1.5)	Total/NA	Solid	8021B	32516
880-18313-8	SW-3 (1.5)	Total/NA	Solid	8021B	32516
880-18313-9	SW-4 (1.5)	Total/NA	Solid	8021B	32516
880-18313-10	SW-5 (1.5)	Total/NA	Solid	8021B	32516
880-18313-11	SW-6 (1.5)	Total/NA	Solid	8021B	32516
MB 880-32444/5-A	Method Blank	Total/NA	Solid	8021B	32444
MB 880-32516/5-A	Method Blank	Total/NA	Solid	8021B	32516
LCS 880-32516/1-A	Lab Control Sample	Total/NA	Solid	8021B	32516
LCSD 880-32516/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32516
880-18313-1 MS	CS-1 (1.5)	Total/NA	Solid	8021B	32516
880-18313-1 MSD	CS-1 (1.5)	Total/NA	Solid	8021B	32516

Prep Batch: 32444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32444/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 32516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18313-1	CS-1 (1.5)	Total/NA	Solid	5035	
880-18313-2	CS-2 (1.5)	Total/NA	Solid	5035	
880-18313-3	CS-3 (1.5)	Total/NA	Solid	5035	
880-18313-4	CS-4 (1.5)	Total/NA	Solid	5035	
880-18313-5	CS-5 (1.5)	Total/NA	Solid	5035	
880-18313-6	SW-1 (1.5)	Total/NA	Solid	5035	
880-18313-7	SW-2 (1.5)	Total/NA	Solid	5035	
880-18313-8	SW-3 (1.5)	Total/NA	Solid	5035	
880-18313-9	SW-4 (1.5)	Total/NA	Solid	5035	
880-18313-10	SW-5 (1.5)	Total/NA	Solid	5035	
880-18313-11	SW-6 (1.5)	Total/NA	Solid	5035	
MB 880-32516/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32516/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32516/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18313-1 MS	CS-1 (1.5)	Total/NA	Solid	5035	
880-18313-1 MSD	CS-1 (1.5)	Total/NA	Solid	5035	

Analysis Batch: 32543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18313-1	CS-1 (1.5)	Total/NA	Solid	Total BTEX	
880-18313-2	CS-2 (1.5)	Total/NA	Solid	Total BTEX	
880-18313-3	CS-3 (1.5)	Total/NA	Solid	Total BTEX	
880-18313-4	CS-4 (1.5)	Total/NA	Solid	Total BTEX	
880-18313-5	CS-5 (1.5)	Total/NA	Solid	Total BTEX	
880-18313-6	SW-1 (1.5)	Total/NA	Solid	Total BTEX	
880-18313-7	SW-2 (1.5)	Total/NA	Solid	Total BTEX	
880-18313-8	SW-3 (1.5)	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

GC VOA (Continued)

Analysis Batch: 32543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18313-9	SW-4 (1.5)	Total/NA	Solid	Total BTEX	
880-18313-10	SW-5 (1.5)	Total/NA	Solid	Total BTEX	
880-18313-11	SW-6 (1.5)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 32384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18313-1	CS-1 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-2	CS-2 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-3	CS-3 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-4	CS-4 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-5	CS-5 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-6	SW-1 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-7	SW-2 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-8	SW-3 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-9	SW-4 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-10	SW-5 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-11	SW-6 (1.5)	Total/NA	Solid	8015B NM	32428
MB 880-32428/1-A	Method Blank	Total/NA	Solid	8015B NM	32428
LCS 880-32428/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32428
LCSD 880-32428/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32428
880-18313-1 MS	CS-1 (1.5)	Total/NA	Solid	8015B NM	32428
880-18313-1 MSD	CS-1 (1.5)	Total/NA	Solid	8015B NM	32428

Prep Batch: 32428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18313-1	CS-1 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-2	CS-2 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-3	CS-3 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-4	CS-4 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-5	CS-5 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-6	SW-1 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-7	SW-2 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-8	SW-3 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-9	SW-4 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-10	SW-5 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-11	SW-6 (1.5)	Total/NA	Solid	8015NM Prep	
MB 880-32428/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32428/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32428/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18313-1 MS	CS-1 (1.5)	Total/NA	Solid	8015NM Prep	
880-18313-1 MSD	CS-1 (1.5)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18313-1	CS-1 (1.5)	Total/NA	Solid	8015 NM	
880-18313-2	CS-2 (1.5)	Total/NA	Solid	8015 NM	
880-18313-3	CS-3 (1.5)	Total/NA	Solid	8015 NM	
880-18313-4	CS-4 (1.5)	Total/NA	Solid	8015 NM	
880-18313-5	CS-5 (1.5)	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 32485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18313-6	SW-1 (1.5)	Total/NA	Solid	8015 NM	
880-18313-7	SW-2 (1.5)	Total/NA	Solid	8015 NM	
880-18313-8	SW-3 (1.5)	Total/NA	Solid	8015 NM	
880-18313-9	SW-4 (1.5)	Total/NA	Solid	8015 NM	
880-18313-10	SW-5 (1.5)	Total/NA	Solid	8015 NM	
880-18313-11	SW-6 (1.5)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18313-1	CS-1 (1.5)	Soluble	Solid	DI Leach	
880-18313-2	CS-2 (1.5)	Soluble	Solid	DI Leach	
880-18313-3	CS-3 (1.5)	Soluble	Solid	DI Leach	
880-18313-4	CS-4 (1.5)	Soluble	Solid	DI Leach	
880-18313-5	CS-5 (1.5)	Soluble	Solid	DI Leach	
880-18313-6	SW-1 (1.5)	Soluble	Solid	DI Leach	
880-18313-7	SW-2 (1.5)	Soluble	Solid	DI Leach	
880-18313-8	SW-3 (1.5)	Soluble	Solid	DI Leach	
880-18313-9	SW-4 (1.5)	Soluble	Solid	DI Leach	
880-18313-10	SW-5 (1.5)	Soluble	Solid	DI Leach	
880-18313-11	SW-6 (1.5)	Soluble	Solid	DI Leach	
MB 880-32301/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32301/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32301/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18313-5 MS	CS-5 (1.5)	Soluble	Solid	DI Leach	
880-18313-5 MSD	CS-5 (1.5)	Soluble	Solid	DI Leach	

Analysis Batch: 32431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18313-1	CS-1 (1.5)	Soluble	Solid	300.0	32301
880-18313-2	CS-2 (1.5)	Soluble	Solid	300.0	32301
880-18313-3	CS-3 (1.5)	Soluble	Solid	300.0	32301
880-18313-4	CS-4 (1.5)	Soluble	Solid	300.0	32301
880-18313-5	CS-5 (1.5)	Soluble	Solid	300.0	32301
880-18313-6	SW-1 (1.5)	Soluble	Solid	300.0	32301
880-18313-7	SW-2 (1.5)	Soluble	Solid	300.0	32301
880-18313-8	SW-3 (1.5)	Soluble	Solid	300.0	32301
880-18313-9	SW-4 (1.5)	Soluble	Solid	300.0	32301
880-18313-10	SW-5 (1.5)	Soluble	Solid	300.0	32301
880-18313-11	SW-6 (1.5)	Soluble	Solid	300.0	32301
MB 880-32301/1-A	Method Blank	Soluble	Solid	300.0	32301
LCS 880-32301/2-A	Lab Control Sample	Soluble	Solid	300.0	32301
LCSD 880-32301/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32301
880-18313-5 MS	CS-5 (1.5)	Soluble	Solid	300.0	32301
880-18313-5 MSD	CS-5 (1.5)	Soluble	Solid	300.0	32301

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: CS-1 (1.5)

Lab Sample ID: 880-18313-1

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 15:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/18/22 22:05	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 04:29	CH	EET MID

Client Sample ID: CS-2 (1.5)

Lab Sample ID: 880-18313-2

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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	4.99 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 17:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/18/22 23:10	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 04:37	CH	EET MID

Client Sample ID: CS-3 (1.5)

Lab Sample ID: 880-18313-3

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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	5.01 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 17:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/18/22 23:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 04:45	CH	EET MID

Client Sample ID: CS-4 (1.5)

Lab Sample ID: 880-18313-4

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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	5.01 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 17:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: CS-4 (1.5)

Lab Sample ID: 880-18313-4

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/18/22 23:54	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 04:53	CH	EET MID

Client Sample ID: CS-5 (1.5)

Lab Sample ID: 880-18313-5

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 18:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/19/22 00:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 05:01	CH	EET MID

Client Sample ID: SW-1 (1.5)

Lab Sample ID: 880-18313-6

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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	4.99 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 18:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/19/22 00:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 05:24	CH	EET MID

Client Sample ID: SW-2 (1.5)

Lab Sample ID: 880-18313-7

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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	4.98 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 20:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/19/22 00:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: SW-2 (1.5)

Lab Sample ID: 880-18313-7

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 05:32	CH	EET MID

Client Sample ID: SW-3 (1.5)

Lab Sample ID: 880-18313-8

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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	4.97 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 20:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/19/22 01:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 05:56	CH	EET MID

Client Sample ID: SW-4 (1.5)

Lab Sample ID: 880-18313-9

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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	5.01 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 21:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/19/22 01:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 06:03	CH	EET MID

Client Sample ID: SW-5 (1.5)

Lab Sample ID: 880-18313-10

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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	5.01 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 21:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/19/22 02:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 06:11	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Client Sample ID: SW-6 (1.5)

Lab Sample ID: 880-18313-11

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/18/22 11:50

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	4.99 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 21:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32543	08/19/22 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32485	08/19/22 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32428	08/18/22 13:42	DM	EET MID
Total/NA	Analysis	8015B NM		1			32384	08/19/22 02:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32301	08/18/22 14:00	CH	EET MID
Soluble	Analysis	300.0		1			32431	08/19/22 06:19	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
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

Eurofins Midland

Method Summary

Client: Carmona Resources
Project/Site: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
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: Haas 6 Fderal Com #1 (06.21.22)

Job ID: 880-18313-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18313-1	CS-1 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50
880-18313-2	CS-2 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50
880-18313-3	CS-3 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50
880-18313-4	CS-4 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50
880-18313-5	CS-5 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50
880-18313-6	SW-1 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50
880-18313-7	SW-2 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50
880-18313-8	SW-3 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50
880-18313-9	SW-4 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50
880-18313-10	SW-5 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50
880-18313-11	SW-6 (1.5)	Solid	08/18/22 00:00	08/18/22 11:50

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

Work Order No: 14313

Page 1 of 2

Project Manager	Ashton Thielke	Bill to: (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving NM 88256
Phone	432-813-6823	Email	jacqui.harris@conocophillips.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ PRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other	

Project Name	Haas 6 Federal Com #1 (06 21 22)	Turn Around	☐ Routine ☒ Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes			
Project Number	1092	Due Date	24 Hour												None NO	DI Water H ₂ O		
Project Location	Lee Co, NM	TAT starts the day received by the lab if received by 4 30pm													Cool Cool	MeOH Me		
Sampler's Name	AT														HCL HC	HNO ₃ HN		
PO #															H ₂ SO ₄ H ₂	NaOH Na		
SAMPLE RECEIPT		Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐											H ₃ PO ₄ HP		
Received Inact.	Yes ☒ No ☐	Thermometer ID														NaHSO ₄ NABIS		
Cooler Custody Seals	Yes ☒ No ☐	Correction Factor														Na ₂ S ₂ O ₃ NaSO ₃		
Sample Custody Seals	Yes ☒ No ☐	Temperature Reading														Zn Acetate+NaOH Zn		
Total Containers		Corrected Temperature														NaOH+Ascorbic Acid SAPC		
Sample Identification	Date	Time	Soil	Water	Grav/Comp	# of Cont											Sample Comments	
CS-1 (1 5)	8/18/2022		X		Comp	1	X	X	X									
CS-2 (1 5)	8/18/2022		X		Comp	1	X	X	X									
CS-3 (1 5)	8/18/2022		X		Comp	1	X	X	X									
CS-4 (1 5)	8/18/2022		X		Comp	1	X	X	X									
CS-5 (1 5)	8/18/2022		X		Comp	1	X	X	X									
SW-1 (1 5)	8/18/2022		X		Comp	1	X	X	X									
SW-2 (1 5)	8/18/2022		X		Comp	1	X	X	X									
SW-3 (1 5)	8/18/2022		X		Comp	1	X	X	X									
SW-4 (1 5)	8/18/2022		X		Comp	1	X	X	X									
SW-5 (1 5)	8/18/2022		X		Comp	1	X	X	X									



880-18313 Chain of Custody

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
			8/18/22
			150

Project Manager	Astron Thielke	Bill to: (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving, NM 88256
Phone	432-813-6823	Email	jacqui_harris@comocphillips.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 ☐	

Work Order No: 8213

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-18313-1

SDG Number: Lea Co, NM

Login Number: 18313

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

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

CONDITIONS

Action 146433

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 146433
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	9/27/2022