CARMONA RESOURCES

SITE INFORMATION

Closure Report
SRO State Com 064H (05.03.23)
Incident #NAPP2316652713
Eddy County, New Mexico
Unit E Sec 10 T26S R28E
32.0574°, -104.0808°

Crude Oil Release
Point of Release: Equipment Failure
Release Date: 05.03.2023
Volume Released: 0.2849 Barrels 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 500
Midland, Texas 79701

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

CARMONA RESOURCES

TABLE OF CONTENTS

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

CARMONA RESOURCES

August 30, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Closure Report
SRO State Com 064H (05.03.23)
Concho Operating, LLC
Site Location: Unit E, S10, T26S, R28E
(Lat 32.0574º, Long -104.0808º)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the SRO State Com 064H (05.03.23). The site is located at 32.0574°, -104.0808° within Unit E, S10, T26S, R28E, and in Eddy 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 May 3, 2023, caused by a valve failure resulting in a flare fire. It released approximately zero point two eight four nine (0.2849) barrels of crude oil, and zero (0) barrels of crude oil were recovered due to the fire burning any standing fluids. The impacted area occurred on the pad, 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 medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 1.00 miles Southeast of the site in S14, T26S, R28E and was drilled in 2021. The well has a reported depth to groundwater of 155.92 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, thefollowing 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

Carmona Resources, LLC performed site assessment activities to evaluate soil impacts from the release. One (1) sample point (S-1) and four (4) horizontal points (H-1 through H-4) were advanced to depths ranging from the surface to 2.0’ bgs inside and outside the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The

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

CARMONA RESOURCES

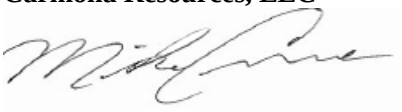
laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

All samples were below the chloride, TPH, and BTEX regulatory criteria. See Table 1 for the analytical results.

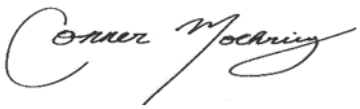
5.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and COG formally requests the 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

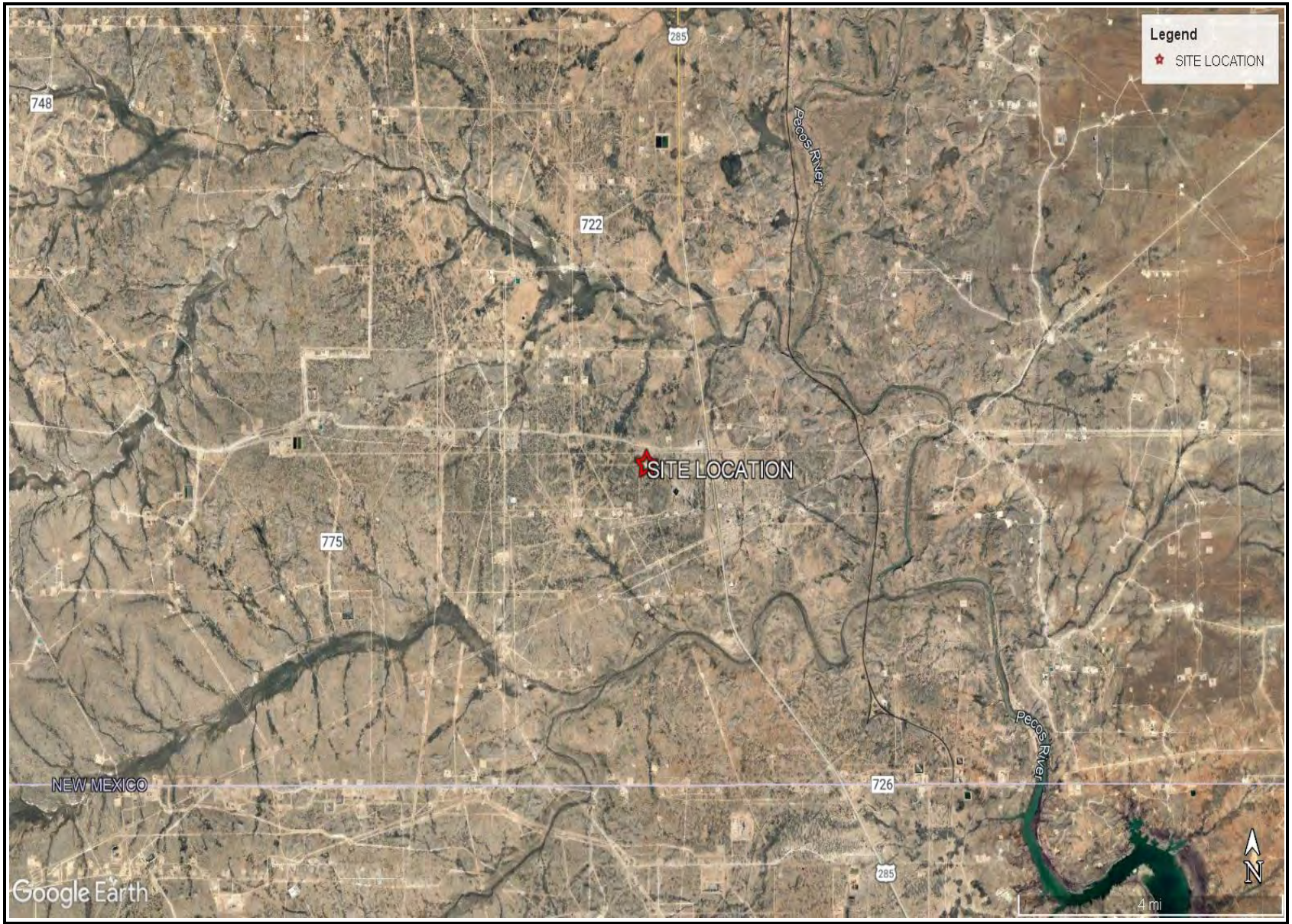


Conner Moehring
Sr. Project Manager

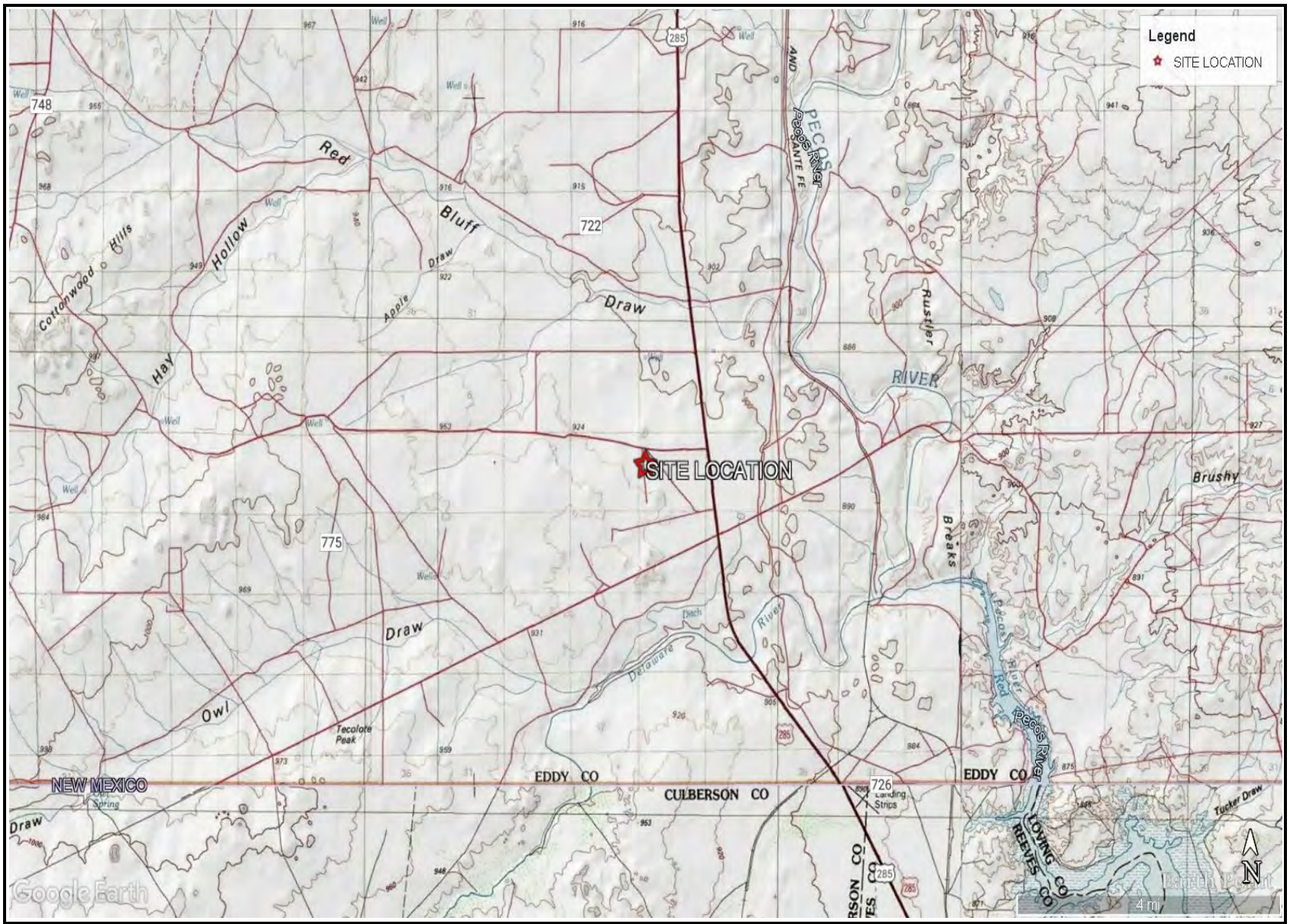
310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

FIGURES

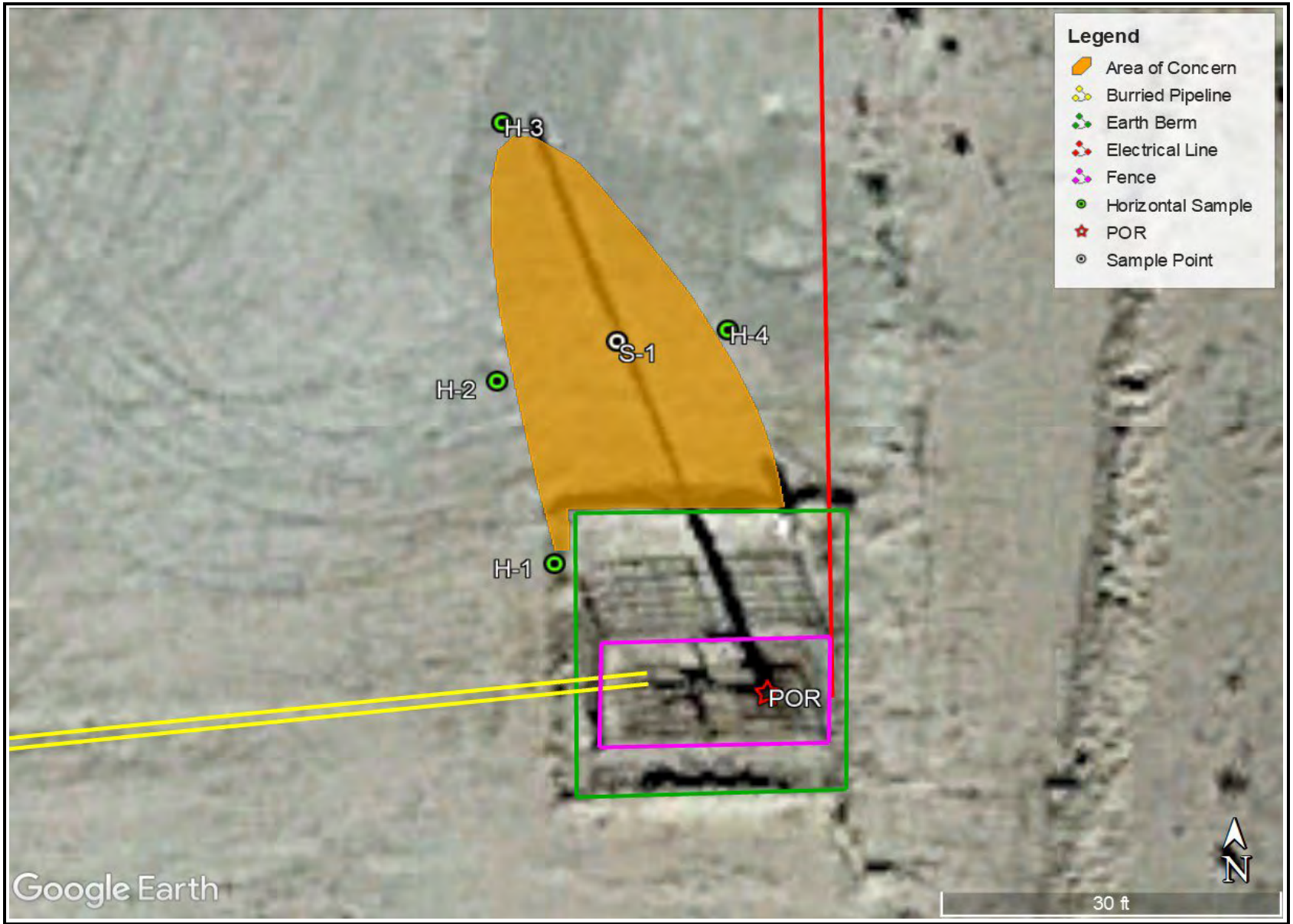
CARMONA RESOURCES



OVERVIEW MAP COG OPERATING, LLC SRO STATE COM 064H (05.03.23) EDDY COUNTY, NEW MEXICO 32.0574°, 104.0808°	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP COG OPERATING, LLC SRO STATE COM 064H (05.03.23) EDDY COUNTY, NEW MEXICO 32.0574°, 104.0808°	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP COG OPERATING, LLC SRO STATE COM 064H (05.03.23) EDDY COUNTY, NEW MEXICO 32.0574°, 104.0808°	CARMONA RESOURCES	FIGURE 3

APPENDIX A

CARMONA RESOURCES

Table 1
Conoco Phillips
SRO State Com 064H (05.03.23)
Eddy 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	6/28/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	507
	6/28/2023	1.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	470
	6/28/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	308
	6/28/2023	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	254
H-1	7/24/2023	0-0.5	<50.3	10.9	<50.3	10.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	274
H-2	7/24/2023	0-0.5	<50.1	64.7	<50.1	64.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	219
H-3	7/24/2023	0-0.5	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	87.2
H-4	7/24/2023	0-0.5	<50.5	58.4	<50.5	58.4	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	78.5
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

[A] – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) - Sample Points

(H) Horizontals

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: SRO State Com 064H (05.03.23)

County: Eddy County, New Mexico

Description:
View South, area of H-3 through H-1.

Photograph No. 2

Facility: SRO State Com 064H (05.03.23)

County: Eddy County, New Mexico

Description:
View East, area of H-2 through H-4.

Photograph No. 3

Facility: SRO State Com 064H (05.03.23)

County: Eddy County, New Mexico

Description:
View North, area of H-1 through H-4.

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 not 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: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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.

Form C-141
Page 4

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: Jacqui Harris _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

COG Operating

Legend

- 0.50 Mile Radius
- 1.00 Miles
- 1.07 Miles
- 1.25 Miles
- NMSEO Water Well
- SRO State Com 064H
- USGS Water Well

SRO State Com 064H

155.92 - Drilled 2021

120' - Drilled 1960

175' - Drilled 2017

N

4000 ft

Medium Karst

COG Operating

Legend

- High
- Medium
- SRO State Com 064H

SRO State Com 064H

Google Earth

1 mi

N

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-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02479	CUB	ED		4	4	10	26S	28E	587909	3546534*	1302	200		
C 02480	CUB	ED		4	4	10	26S	28E	587909	3546534*	1302	150		
C 02160 S5	CUB	ED	1	1	1	14	26S	28E	588225	3546237*	1726	300	120	180
C 02481	CUB	ED		1	1	14	26S	28E	588326	3546138*	1865	200		
C 04022 POD1	CUB	ED	4	4	2	15	26S	28E	588082	3545647	2007	220	175	45
C 02160 S6	CUB	ED	3	3	1	14	26S	28E	588232	3545635*	2117	300	120	180
C 02477	CUB	ED		1	1	03	26S	28E	586687	3549347*	2181	150		
C 02160 S3	CUB	ED	2	2	1	14	26S	28E	588834	3546241*	2261	300	120	180
C 02160 S4	CUB	ED	2	2	1	14	26S	28E	588834	3546241*	2261	300	120	180
C 02924	C	ED	1	3	2	11	26S	28E	589032	3547451*	2278			
C 02160 S	CUB	ED	1	1	2	14	26S	28E	589043	3546244*	2452	300	120	180
C 02160 S2	CUB	ED	1	1	2	14	26S	28E	589043	3546244*	2452	300	120	180
C 02160	CUB	ED	4	1	2	14	26S	28E	589243	3546044*	2715	300	120	180
C 02160 S9	CUB	ED	3	3	2	02	26S	28E	589020	3548868*	2819	300	120	180
C 02160 S7	CUB	ED	3	3	1	22	26S	28E	586638	3543998*	3172	300	120	180
C 01668	CUB	ED		3	3	12	26S	28E	589957	3546554*	3244	250	100	150
C 02160 S8	CUB	ED	2	3	3	12	26S	28E	590056	3546653*	3325	200	120	80
C 02478	CUB	ED		2	1	05	26S	28E	583848	3549325*	3632	100		
C 02894	C	ED	2	2	3	12	26S	28E	590458	3547061*	3688	240		

Average Depth to Water: **122 feet**

Minimum Depth: **100 feet**

Maximum Depth: **175 feet**

Record Count: 19

UTMNAD83 Radius Search (in meters):

Easting (X): 586770.86 **Northing (Y):** 3547167.53 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S

Groundwater | New Mexico | GO

Click to 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 =
- 320309104020401

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320309104020401 26S.28E.14.11111

Eddy County, New Mexico
Latitude 32°02'59.0", Longitude 104°03'58.7" NAD83
Land-surface elevation 2,972.00 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1978-01-13		D	62610		2849.66	NGVD29	1	Z		
1978-01-13		D	62611		2851.23	NAVD88	1	Z		
1978-01-13		D	72019	122.34			1	Z		
1983-01-25		D	62610		2844.62	NGVD29	1	Z		
1983-01-25		D	62611		2846.19	NAVD88	1	Z		
1983-01-25		D	72019	127.38			1	Z		
1987-10-14		D	62610		2865.60	NGVD29	1	Z		
1987-10-14		D	62611		2867.17	NAVD88	1	Z		
1987-10-14		D	72019	106.40			1	Z		
1993-01-05		D	62610		2871.58	NGVD29	1	S		
1993-01-05		D	62611		2873.15	NAVD88	1	S		
1993-01-05		D	72019	100.42			1	S		
1998-01-22		D	62610		2875.45	NGVD29	1	S		
1998-01-22		D	62611		2877.02	NAVD88	1	S		
1998-01-22		D	72019	96.55			1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code		Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S	
2003-01-27		D	62610		2874.98	NGVD29	1	S	USGS
2003-01-27		D	62611		2876.55	NAVD88	1	S	USGS
2003-01-27		D	72019	97.02			1	S	USGS
2013-01-09	20:30 UTC	m	62610		2832.88	NGVD29	1	S	USGS
2013-01-09	20:30 UTC	m	62611		2834.45	NAVD88	1	S	USGS
2013-01-09	20:30 UTC	m	72019	139.12			1	S	USGS
2021-02-24	20:05 UTC	m	62610		2816.08	NGVD29	1	V	USGS
2021-02-24	20:05 UTC	m	62611		2817.65	NAVD88	1	V	USGS
2021-02-24	20:05 UTC	m	72019	155.92			1	V	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions or Comments
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: 2023-06-13 12:19:40 EDT
0.28 0.24 nadww02

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02160 S5	1	1	1	14	26S	28E	588225	3546237*

Driller License: **Driller Company:**

Driller Name: HEMLER

Drill Start Date:		**Drill Finish Date:**	09/01/1960	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	300 feet	**Depth Water:**	120 feet

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 04022 POD1	4	4	2	15	26S	28E	588082	3545647

Driller License:	1184	**Driller Company:**	WEST TEXAS WATER WELL SERVICE		
Driller Name:	KEITH, RONNY				
Drill Start Date:	05/01/2017	**Drill Finish Date:**	05/05/2017	**Plug Date:**	
Log File Date:	06/05/2017	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	1 GPM
Casing Size:	12.25	**Depth Well:**	220 feet	**Depth Water:**	175 feet

Water Bearing Stratifications:	Top	Bottom	Description
	175	180	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	160	220

New Mexico NFHL Data

June 13, 2023

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/7/2023 12:53:03 PM

JOB DESCRIPTION

SRO State Com 064H (05.03.23)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-30283-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization

Holly Taylor

Generated
7/7/2023 12:53:03 PM

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

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Laboratory Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Job ID: 880-30283-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30283-1

Receipt
The samples were received on 7/3/2023 9:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

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

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-56854/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-56854 and analytical batch 880-56823 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56819 and analytical batch 880-56814 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-56819 and analytical batch 880-56814 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

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

Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/03/23 09:49	07/03/23 19:18	1
Toluene	<0.00199	U *+ *1	0.00199		mg/Kg		07/03/23 09:49	07/03/23 19:18	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		07/03/23 09:49	07/03/23 19:18	1
m-Xylene & p-Xylene	<0.00398	U *- *+ *1	0.00398		mg/Kg		07/03/23 09:49	07/03/23 19:18	1
o-Xylene	<0.00199	U *- *+ *1	0.00199		mg/Kg		07/03/23 09:49	07/03/23 19:18	1
Xylenes, Total	<0.00398	U *- *+ *1	0.00398		mg/Kg		07/03/23 09:49	07/03/23 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/03/23 09:49*	*07/03/23 19:18*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*07/03/23 09:49*	*07/03/23 19:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/05/23 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/05/23 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/03/23 09:15	07/03/23 18:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/03/23 09:15	07/03/23 18:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/03/23 09:15	07/03/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*07/03/23 09:15*	*07/03/23 18:18*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/03/23 09:15*	*07/03/23 18:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**507**		24.9		mg/Kg			07/05/23 19:47	5

Client Sample ID: S-1 (1')

Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/03/23 09:49	07/03/23 19:39	1
Toluene	<0.00202	U *+ *1	0.00202		mg/Kg		07/03/23 09:49	07/03/23 19:39	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		07/03/23 09:49	07/03/23 19:39	1
m-Xylene & p-Xylene	<0.00404	U *- *+ *1	0.00404		mg/Kg		07/03/23 09:49	07/03/23 19:39	1
o-Xylene	<0.00202	U *- *+ *1	0.00202		mg/Kg		07/03/23 09:49	07/03/23 19:39	1
Xylenes, Total	<0.00404	U *- *+ *1	0.00404		mg/Kg		07/03/23 09:49	07/03/23 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/03/23 09:49*	*07/03/23 19:39*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*07/03/23 09:49*	*07/03/23 19:39*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1')

Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/05/23 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/05/23 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/03/23 09:15	07/03/23 18:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/03/23 09:15	07/03/23 18:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/03/23 09:15	07/03/23 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/03/23 09:15*	*07/03/23 18:42*	*1*
o-Terphenyl	*82*		*70 - 130*	*07/03/23 09:15*	*07/03/23 18:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**470**		25.0		mg/Kg			07/05/23 20:04	5

Client Sample ID: S-1 (1.5')

Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/03/23 09:49	07/03/23 20:00	1
Toluene	<0.00202	U *+ *1	0.00202		mg/Kg		07/03/23 09:49	07/03/23 20:00	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		07/03/23 09:49	07/03/23 20:00	1
m-Xylene & p-Xylene	<0.00404	U *- *+ *1	0.00404		mg/Kg		07/03/23 09:49	07/03/23 20:00	1
o-Xylene	<0.00202	U *- *+ *1	0.00202		mg/Kg		07/03/23 09:49	07/03/23 20:00	1
Xylenes, Total	<0.00404	U *- *+ *1	0.00404		mg/Kg		07/03/23 09:49	07/03/23 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/03/23 09:49*	*07/03/23 20:00*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/03/23 09:49*	*07/03/23 20:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/05/23 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/05/23 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/03/23 09:15	07/03/23 19:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/03/23 09:15	07/03/23 19:06	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/03/23 09:15	07/03/23 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/03/23 09:15*	*07/03/23 19:06*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/03/23 09:15*	*07/03/23 19:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**308**		4.99		mg/Kg			07/05/23 20:10	1

Client Sample ID: S-1 (2')

Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/03/23 09:49	07/03/23 20:21	1
Toluene	<0.00199	U *+ *1	0.00199		mg/Kg		07/03/23 09:49	07/03/23 20:21	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		07/03/23 09:49	07/03/23 20:21	1
m-Xylene & p-Xylene	<0.00398	U *- *+ *1	0.00398		mg/Kg		07/03/23 09:49	07/03/23 20:21	1
o-Xylene	<0.00199	U *- *+ *1	0.00199		mg/Kg		07/03/23 09:49	07/03/23 20:21	1
Xylenes, Total	<0.00398	U *- *+ *1	0.00398		mg/Kg		07/03/23 09:49	07/03/23 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/03/23 09:49*	*07/03/23 20:21*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*07/03/23 09:49*	*07/03/23 20:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/05/23 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/05/23 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/03/23 09:15	07/03/23 19:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/03/23 09:15	07/03/23 19:29	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/03/23 09:15	07/03/23 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/03/23 09:15*	*07/03/23 19:29*	*1*
o-Terphenyl	*80*		*70 - 130*	*07/03/23 09:15*	*07/03/23 19:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**254**		5.02		mg/Kg			07/05/23 20:16	1

Surrogate Summary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-30283-1	S-1 (0-0.5')	98	113
880-30283-2	S-1 (1')	103	112
880-30283-3	S-1 (1.5')	101	110
880-30283-4	S-1 (2')	102	113
890-4884-A-1-B MS	Matrix Spike	112	98
890-4884-A-1-C MSD	Matrix Spike Duplicate	113	96
LCS 880-56854/1-A	Lab Control Sample	61 S1-	72
LCSD 880-56854/2-A	Lab Control Sample Dup	118	99
MB 880-56854/5-A	Method Blank	98	87

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-30283-1	S-1 (0-0.5')	113	93
880-30283-2	S-1 (1')	98	82
880-30283-3	S-1 (1.5')	95	81
880-30283-4	S-1 (2')	95	80
890-4875-A-2-H MS	Matrix Spike	125	98
890-4875-A-2-I MSD	Matrix Spike Duplicate	108	85
LCS 880-56819/2-A	Lab Control Sample	85	73
LCSD 880-56819/3-A	Lab Control Sample Dup	90	82
MB 880-56819/1-A	Method Blank	137 S1+	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56854/5-A
Matrix: Solid
Analysis Batch: 56823

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/03/23 09:49	07/03/23 12:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/03/23 09:49	07/03/23 12:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/03/23 09:49	07/03/23 12:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/03/23 09:49	07/03/23 12:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/03/23 09:49	07/03/23 12:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/03/23 09:49	07/03/23 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/03/23 09:49*	*07/03/23 12:55*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/03/23 09:49*	*07/03/23 12:55*	*1*

Lab Sample ID: LCS 880-56854/1-A
Matrix: Solid
Analysis Batch: 56823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1152		mg/Kg		115	70 - 130
Toluene	0.100	0.07406		mg/Kg		74	70 - 130
Ethylbenzene	0.100	0.06320	*-	mg/Kg		63	70 - 130
m-Xylene & p-Xylene	0.200	0.1324	*-	mg/Kg		66	70 - 130
o-Xylene	0.100	0.06050	*-	mg/Kg		60	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*

Lab Sample ID: LCSD 880-56854/2-A
Matrix: Solid
Analysis Batch: 56823

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56854

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1252		mg/Kg		125	70 - 130	8	35
Toluene	0.100	0.1419	*+ *1	mg/Kg		142	70 - 130	63	35
Ethylbenzene	0.100	0.1298	*1	mg/Kg		130	70 - 130	69	35
m-Xylene & p-Xylene	0.200	0.2774	*+ *1	mg/Kg		139	70 - 130	71	35
o-Xylene	0.100	0.1306	*+ *1	mg/Kg		131	70 - 130	73	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-4884-A-1-B MS
Matrix: Solid
Analysis Batch: 56823

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0996	0.1163		mg/Kg		116	70 - 130
Toluene	<0.00202	U *+ *1	0.0996	0.1283		mg/Kg		129	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-4884-A-1-B MS
Matrix: Solid
Analysis Batch: 56823

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U *- *1	0.0996	0.1162		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	<0.00403	U *- *+ *1	0.199	0.2458		mg/Kg		123	70 - 130
o-Xylene	<0.00202	U *- *+ *1	0.0996	0.1158		mg/Kg		116	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-4884-A-1-C MSD
Matrix: Solid
Analysis Batch: 56823

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 56854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.1092		mg/Kg		110	70 - 130	6	35
Toluene	<0.00202	U *+ *1	0.0990	0.1273		mg/Kg		129	70 - 130	1	35
Ethylbenzene	<0.00202	U *- *1	0.0990	0.1152		mg/Kg		116	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U *- *+ *1	0.198	0.2438		mg/Kg		123	70 - 130	1	35
o-Xylene	<0.00202	U *- *+ *1	0.0990	0.1143		mg/Kg		115	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

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

Lab Sample ID: MB 880-56819/1-A
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56819

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		07/03/23 08:00	07/03/23 08:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/03/23 08:00	07/03/23 08:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/03/23 08:00	07/03/23 08:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*07/03/23 08:00*	*07/03/23 08:16*	*1*
o-Terphenyl	*124*		*70 - 130*	*07/03/23 08:00*	*07/03/23 08:16*	*1*

Lab Sample ID: LCS 880-56819/2-A
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	901.2		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	824.2		mg/Kg		82	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-56819/2-A
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56819

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: LCSD 880-56819/3-A
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56819

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	875.3		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	841.2		mg/Kg		84	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-4875-A-2-H MS
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56819

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1010		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	1353	F1	mg/Kg		131	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-4875-A-2-I MSD
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 56819

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	886.9		mg/Kg		87	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	1171		mg/Kg		113	70 - 130	14	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	85		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56898/1-A
Matrix: Solid
Analysis Batch: 57017

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			07/05/23 19:29	1

Lab Sample ID: LCS 880-56898/2-A
Matrix: Solid
Analysis Batch: 57017

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	240.1		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-56898/3-A
Matrix: Solid
Analysis Batch: 57017

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	240.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-30283-1 MS
Matrix: Solid
Analysis Batch: 57017

Client Sample ID: S-1 (0-0.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	507		1250	1683		mg/Kg		94	90 - 110		

Lab Sample ID: 880-30283-1 MSD
Matrix: Solid
Analysis Batch: 57017

Client Sample ID: S-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	507		1250	1680		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 56823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30283-1	S-1 (0-0.5')	Total/NA	Solid	8021B	56854
880-30283-2	S-1 (1')	Total/NA	Solid	8021B	56854
880-30283-3	S-1 (1.5')	Total/NA	Solid	8021B	56854
880-30283-4	S-1 (2')	Total/NA	Solid	8021B	56854
MB 880-56854/5-A	Method Blank	Total/NA	Solid	8021B	56854
LCS 880-56854/1-A	Lab Control Sample	Total/NA	Solid	8021B	56854
LCSD 880-56854/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56854
890-4884-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	56854
890-4884-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56854

Prep Batch: 56854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30283-1	S-1 (0-0.5')	Total/NA	Solid	5035	
880-30283-2	S-1 (1')	Total/NA	Solid	5035	
880-30283-3	S-1 (1.5')	Total/NA	Solid	5035	
880-30283-4	S-1 (2')	Total/NA	Solid	5035	
MB 880-56854/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56854/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56854/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4884-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4884-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30283-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-30283-2	S-1 (1')	Total/NA	Solid	Total BTEX	
880-30283-3	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-30283-4	S-1 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 56814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30283-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	56819
880-30283-2	S-1 (1')	Total/NA	Solid	8015B NM	56819
880-30283-3	S-1 (1.5')	Total/NA	Solid	8015B NM	56819
880-30283-4	S-1 (2')	Total/NA	Solid	8015B NM	56819
MB 880-56819/1-A	Method Blank	Total/NA	Solid	8015B NM	56819
LCS 880-56819/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56819
LCSD 880-56819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56819
890-4875-A-2-H MS	Matrix Spike	Total/NA	Solid	8015B NM	56819
890-4875-A-2-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56819

Prep Batch: 56819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30283-1	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-30283-2	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-30283-3	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-30283-4	S-1 (2')	Total/NA	Solid	8015NM Prep	
MB 880-56819/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56819/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 56819 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-56819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4875-A-2-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4875-A-2-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30283-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-30283-2	S-1 (1')	Total/NA	Solid	8015 NM	
880-30283-3	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-30283-4	S-1 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30283-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-30283-2	S-1 (1')	Soluble	Solid	DI Leach	
880-30283-3	S-1 (1.5')	Soluble	Solid	DI Leach	
880-30283-4	S-1 (2')	Soluble	Solid	DI Leach	
MB 880-56898/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56898/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56898/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30283-1 MS	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-30283-1 MSD	S-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 57017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30283-1	S-1 (0-0.5')	Soluble	Solid	300.0	56898
880-30283-2	S-1 (1')	Soluble	Solid	300.0	56898
880-30283-3	S-1 (1.5')	Soluble	Solid	300.0	56898
880-30283-4	S-1 (2')	Soluble	Solid	300.0	56898
MB 880-56898/1-A	Method Blank	Soluble	Solid	300.0	56898
LCS 880-56898/2-A	Lab Control Sample	Soluble	Solid	300.0	56898
LCSD 880-56898/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56898
880-30283-1 MS	S-1 (0-0.5')	Soluble	Solid	300.0	56898
880-30283-1 MSD	S-1 (0-0.5')	Soluble	Solid	300.0	56898

Lab Chronicle

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-0.5')
Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	56854	07/03/23 09:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56823	07/03/23 19:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56992	07/05/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			56971	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56819	07/03/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/03/23 18:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	57017	07/05/23 19:47	CH	EET MID

Client Sample ID: S-1 (1')
Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56854	07/03/23 09:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56823	07/03/23 19:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56992	07/05/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			56971	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56819	07/03/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/03/23 18:42	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	57017	07/05/23 20:04	CH	EET MID

Client Sample ID: S-1 (1.5')
Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56854	07/03/23 09:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56823	07/03/23 20:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56992	07/05/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			56971	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56819	07/03/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/03/23 19:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57017	07/05/23 20:10	CH	EET MID

Client Sample ID: S-1 (2')
Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	56854	07/03/23 09:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56823	07/03/23 20:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56992	07/05/23 12:23	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (2')
Date Collected: 06/28/23 00:00
Date Received: 07/03/23 09:04

Lab Sample ID: 880-30283-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			56971	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56819	07/03/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/03/23 19:29	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57017	07/05/23 20:16	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
Job ID: 880-30283-1
Project/Site: SRO State Com 064H (05.03.23)
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-30283-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30283-1	S-1 (0-0.5')	Solid	06/28/23 00:00	07/03/23 09:04
880-30283-2	S-1 (1')	Solid	06/28/23 00:00	07/03/23 09:04
880-30283-3	S-1 (1.5')	Solid	06/28/23 00:00	07/03/23 09:04
880-30283-4	S-1 (2')	Solid	06/28/23 00:00	07/03/23 09:04

880-30283 Chain of Custody

Page 1 of 1

Project Manager:	Conner Moehring	Bill to. (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address.	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone:	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	SRO State Com 064H (05 03 23)	Turn Around	
Project Number:	2056	☐ Routine	☑ Rush
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name.	FV		
PO #:			

SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor:		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature.		

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
S-1 (0-0.5')	6/28/2023		X		G	1		X	X	X
S-1 (1')	6/28/2023		X		G	1		X	X	X
S-1 (1.5')	6/28/2023		X		G	1		X	X	X
S-1 (2')	6/28/2023		X		G	1		X	X	X

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2S0_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

Comments Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	7/3/23		7/3/23 904

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-30283-1
SDG Number: Eddy County, New Mexico

Login Number: 30283
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/31/2023 2:29:31 PM

JOB DESCRIPTION

SRO State Com 064H (05.03.23)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-31266-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

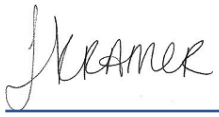
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
7/31/2023 2:29:31 PM

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

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Laboratory Job ID: 880-31266-1
SDG: Eddy County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

Job ID: 880-31266-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31266-1

Receipt
The samples were received on 7/26/2023 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-31266-1), H-2 (0-0.5') (880-31266-2), H-3 (0-0.5') (880-31266-3) and H-4 (0-0.5') (880-31266-4).

GC VOA
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 880-58649 and analytical batch 880-58688 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-31266-1
Matrix: Solid
Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/27/23 08:54	07/27/23 11:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/27/23 08:54	07/27/23 11:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/27/23 08:54	07/27/23 11:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/27/23 08:54	07/27/23 11:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/27/23 08:54	07/27/23 11:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/27/23 08:54	07/27/23 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/27/23 08:54*	*07/27/23 11:38*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/27/23 08:54*	*07/27/23 11:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/28/23 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**10.9**		50.3		mg/Kg			07/31/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U F1	50.3		mg/Kg		07/27/23 10:26	07/28/23 11:00	1
Diesel Range Organics (Over C10-C28)	**10.9**	**F1**	50.3		mg/Kg		07/27/23 10:26	07/28/23 11:00	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/27/23 10:26	07/28/23 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/27/23 10:26*	*07/28/23 11:00*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/27/23 10:26*	*07/28/23 11:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**274**		4.98		mg/Kg			07/27/23 20:30	1

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

Lab Sample ID: 880-31266-2
Matrix: Solid
Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/27/23 08:54	07/27/23 11:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/27/23 08:54	07/27/23 11:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/27/23 08:54	07/27/23 11:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/27/23 08:54	07/27/23 11:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/27/23 08:54	07/27/23 11:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/27/23 08:54	07/27/23 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/27/23 08:54*	*07/27/23 11:58*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/27/23 08:54*	*07/27/23 11:58*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-31266-2
Matrix: Solid
Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/28/23 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**64.7**		50.1		mg/Kg			07/31/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/27/23 10:26	07/28/23 12:05	1
Diesel Range Organics (Over C10-C28)	**64.7**		50.1		mg/Kg		07/27/23 10:26	07/28/23 12:05	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/27/23 10:26	07/28/23 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/27/23 10:26*	*07/28/23 12:05*	*1*
o-Terphenyl	*91*		*70 - 130*	*07/27/23 10:26*	*07/28/23 12:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**219**		4.96		mg/Kg			07/27/23 20:45	1

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

Lab Sample ID: 880-31266-3
Matrix: Solid
Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/27/23 08:54	07/27/23 12:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/27/23 08:54	07/27/23 12:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/27/23 08:54	07/27/23 12:19	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/27/23 08:54	07/27/23 12:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/27/23 08:54	07/27/23 12:19	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/27/23 08:54	07/27/23 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/27/23 08:54*	*07/27/23 12:19*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*07/27/23 08:54*	*07/27/23 12:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/28/23 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			07/31/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		07/27/23 10:26	07/28/23 12:27	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		07/27/23 10:26	07/28/23 12:27	1

Client Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-31266-3
Matrix: Solid
Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/27/23 10:26	07/28/23 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*07/27/23 10:26*	*07/28/23 12:27*	*1*
o-Terphenyl	*80*		*70 - 130*	*07/27/23 10:26*	*07/28/23 12:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.2**		4.97		mg/Kg			07/27/23 20:50	1

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

Lab Sample ID: 880-31266-4
Matrix: Solid
Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/27/23 08:54	07/27/23 12:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/27/23 08:54	07/27/23 12:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/27/23 08:54	07/27/23 12:40	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/27/23 08:54	07/27/23 12:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/27/23 08:54	07/27/23 12:40	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/27/23 08:54	07/27/23 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/27/23 08:54*	*07/27/23 12:40*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*07/27/23 08:54*	*07/27/23 12:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/28/23 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**58.4**		50.5		mg/Kg			07/31/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		07/27/23 10:26	07/28/23 12:50	1
Diesel Range Organics (Over C10-C28)	**58.4**		50.5		mg/Kg		07/27/23 10:26	07/28/23 12:50	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/27/23 10:26	07/28/23 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*07/27/23 10:26*	*07/28/23 12:50*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/27/23 10:26*	*07/28/23 12:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.5**		5.02		mg/Kg			07/27/23 20:55	1

Surrogate Summary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31266-1	H-1 (0-0.5')	107	97
880-31266-1 MS	H-1 (0-0.5')	117	93
880-31266-1 MSD	H-1 (0-0.5')	128	96
880-31266-2	H-2 (0-0.5')	103	109
880-31266-3	H-3 (0-0.5')	109	112
880-31266-4	H-4 (0-0.5')	106	105
LCS 880-58635/1-A	Lab Control Sample	134 S1+	100
LCSD 880-58635/2-A	Lab Control Sample Dup	118	100
MB 880-58635/5-A	Method Blank	100	90

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31266-1	H-1 (0-0.5')	88	97
880-31266-1 MS	H-1 (0-0.5')	77	75
880-31266-1 MSD	H-1 (0-0.5')	77	74
880-31266-2	H-2 (0-0.5')	81	91
880-31266-3	H-3 (0-0.5')	71	80
880-31266-4	H-4 (0-0.5')	84	90
LCS 880-58649/2-A	Lab Control Sample	93	96
LCSD 880-58649/3-A	Lab Control Sample Dup	93	94
MB 880-58649/1-A	Method Blank	85	100

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-31266-1 MS
Matrix: Solid
Analysis Batch: 58625

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-31266-1 MSD
Matrix: Solid
Analysis Batch: 58625

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-58635/5-A
Matrix: Solid
Analysis Batch: 58625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/27/23 08:54	07/27/23 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/27/23 08:54	07/27/23 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/27/23 08:54	07/27/23 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/27/23 08:54	07/27/23 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/27/23 08:54	07/27/23 11:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/27/23 08:54	07/27/23 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/27/23 08:54	07/27/23 11:16	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/27/23 08:54	07/27/23 11:16	1

Lab Sample ID: LCS 880-58635/1-A
Matrix: Solid
Analysis Batch: 58625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09158		mg/Kg		92	70 - 130
Toluene	0.100	0.1142		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1188		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2437		mg/Kg		122	70 - 130
o-Xylene	0.100	0.1216		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-58635/2-A
Matrix: Solid
Analysis Batch: 58625

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58635

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09757		mg/Kg		98	70 - 130	6	35
Toluene			0.100	0.1119		mg/Kg		112	70 - 130	2	35
Ethylbenzene			0.100	0.1086		mg/Kg		109	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2153		mg/Kg		108	70 - 130	12	35
o-Xylene			0.100	0.1076		mg/Kg		108	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-58649/1-A
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58649

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		07/27/23 10:26	07/28/23 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/27/23 10:26	07/28/23 08:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/27/23 10:26	07/28/23 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*07/27/23 10:26*	*07/28/23 08:17*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/27/23 10:26*	*07/28/23 08:17*	*1*

Lab Sample ID: LCS 880-58649/2-A
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58649

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	705.1		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)			1000	987.8		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: LCSD 880-58649/3-A
Matrix: Solid
Analysis Batch: 58688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58649

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	719.8		mg/Kg		72	70 - 130	2	20

QC Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-58649/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58688 — **Prep Batch: 58649**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	961.6		mg/Kg		96	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-31266-1 MS — **Client Sample ID: H-1 (0-0.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58688 — **Prep Batch: 58649**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U F1	997	649.3	F1	mg/Kg		65	70 - 130
Diesel Range Organics (Over C10-C28)	10.9	F1	997	767.3	F1	mg/Kg		66	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: 880-31266-1 MSD — **Client Sample ID: H-1 (0-0.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58688 — **Prep Batch: 58649**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U F1	997	644.3	F1	mg/Kg		65	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	10.9	F1	997	774.1	F1	mg/Kg		67	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58640/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/27/23 20:15	1

Lab Sample ID: LCS 880-58640/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58695

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	238.7		mg/Kg		95	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-58640/3-A
Matrix: Solid
Analysis Batch: 58695

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	237.8		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-31266-1 MS
Matrix: Solid
Analysis Batch: 58695

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	274		249	518.3		mg/Kg		98	90 - 110

Lab Sample ID: 880-31266-1 MSD
Matrix: Solid
Analysis Batch: 58695

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	274		249	517.9		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 58625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31266-1	H-1 (0-0.5')	Total/NA	Solid	8021B	58635
880-31266-2	H-2 (0-0.5')	Total/NA	Solid	8021B	58635
880-31266-3	H-3 (0-0.5')	Total/NA	Solid	8021B	58635
880-31266-4	H-4 (0-0.5')	Total/NA	Solid	8021B	58635
MB 880-58635/5-A	Method Blank	Total/NA	Solid	8021B	58635
LCS 880-58635/1-A	Lab Control Sample	Total/NA	Solid	8021B	58635
LCSD 880-58635/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58635
880-31266-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	
880-31266-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	58640

Prep Batch: 58635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31266-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-31266-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-31266-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-31266-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-58635/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58635/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58635/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Leach Batch: 58640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31266-1 MSD	H-1 (0-0.5')	Total/NA	Solid	DI Leach	

Analysis Batch: 58729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31266-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31266-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31266-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31266-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31266-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31266-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31266-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31266-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-58649/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58649/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31266-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31266-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31266-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	58649
880-31266-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	58649
880-31266-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	58649
880-31266-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	58649

QC Association Summary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 58688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58649/1-A	Method Blank	Total/NA	Solid	8015B NM	58649
LCS 880-58649/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58649
LCSD 880-58649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58649
880-31266-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	58649
880-31266-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	58649

Analysis Batch: 58891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31266-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-31266-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-31266-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-31266-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31266-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-31266-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-31266-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-31266-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-58640/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58640/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58640/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31266-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-31266-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 58695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31266-1	H-1 (0-0.5')	Soluble	Solid	300.0	58640
880-31266-2	H-2 (0-0.5')	Soluble	Solid	300.0	58640
880-31266-3	H-3 (0-0.5')	Soluble	Solid	300.0	58640
880-31266-4	H-4 (0-0.5')	Soluble	Solid	300.0	58640
MB 880-58640/1-A	Method Blank	Soluble	Solid	300.0	58640
LCS 880-58640/2-A	Lab Control Sample	Soluble	Solid	300.0	58640
LCSD 880-58640/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58640
880-31266-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	58640
880-31266-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	58640

Lab Chronicle

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-31266-1
Matrix: Solid
Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

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	58635	07/27/23 08:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58625	07/27/23 11:38	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58729	07/28/23 13:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58891	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 11:00	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58640	07/27/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			58695	07/27/23 20:30	CH	EET MID

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

Lab Sample ID: 880-31266-2
Matrix: Solid
Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

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	58635	07/27/23 08:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58625	07/27/23 11:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58729	07/28/23 13:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58891	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 12:05	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58640	07/27/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			58695	07/27/23 20:45	CH	EET MID

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

Lab Sample ID: 880-31266-3
Matrix: Solid
Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58635	07/27/23 08:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58625	07/27/23 12:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58729	07/28/23 13:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58891	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 12:27	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58640	07/27/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			58695	07/27/23 20:50	CH	EET MID

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

Lab Sample ID: 880-31266-4
Matrix: Solid
Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

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	58635	07/27/23 08:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58625	07/27/23 12:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58729	07/28/23 13:06	AJ	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

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

Date Collected: 07/24/23 00:00
Date Received: 07/26/23 16:45

Lab Sample ID: 880-31266-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58891	07/31/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58649	07/27/23 10:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58688	07/28/23 12:50	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58640	07/27/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1			58695	07/27/23 20:55	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
Job ID: 880-31266-1
Project/Site: SRO State Com 064H (05.03.23)
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: SRO State Com 064H (05.03.23)

Job ID: 880-31266-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31266-1	H-1 (0-0.5')	Solid	07/24/23 00:00	07/26/23 16:45
880-31266-2	H-2 (0-0.5')	Solid	07/24/23 00:00	07/26/23 16:45
880-31266-3	H-3 (0-0.5')	Solid	07/24/23 00:00	07/26/23 16:45
880-31266-4	H-4 (0-0.5')	Solid	07/24/23 00:00	07/26/23 16:45

Work Order No: 31266

7/31/2023

Page 1 of 1

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name:	SRO State Com 064H (05 03 23)	Turn Around	
Project Number	2056	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date	24 Hrs
Sampler's Name	MM		
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes No	Wet Ice	Yes No	
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers.		Corrected Temperature		

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
H-1 (0-0 5')	7/24/2023		X		G	1		X	X	X
H-2 (0-0 5')	7/24/2023		X		G	1		X	X	X
H-3 (0-0 5')	7/24/2023		X		G	1		X	X	X
H-4 (0-0 5')	7/24/2023		X		G	1		X	X	X

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2SO_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

880-31266 Chain of Custody

Comments Email to Mike Carmona / Mcarmona@carmonaresources com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	7-26-23 1645		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-31266-1
SDG Number: Eddy County, New Mexico

Login Number: 31266
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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

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

CONDITIONS

Action 265356

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 265356
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2316652713 SRO STATE COM 064H, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc.., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/7/2024