



## SITE INFORMATION

---

**Closure Report**  
**Firefox 4 Federal Com 005H (06.08.23)**  
**Eddy County, New Mexico**  
**Incident ID: NAPP2316649435**  
**Unit L Sec 04 T19S R31E**  
**32.6872°, -103.8805°**  
**Eddy County, New Mexico**

**Produced Water Release**  
**Point of Release: Corroded Water Line Check Valve**  
**Release Date: 06.08.23**  
**Volume Released: 0.159 Barrels of Produced Water**  
**Volume Recovered: 0 Barrels of Produced Water**

**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**



## TABLE OF CONTENTS

---

### 1.0 SITE INFORMATION AND BACKGROUND

### 2.0 SITE CHARACTERIZATION AND GROUNDWATER

### 3.0 NMAC REGULATORY CRITERIA

### 4.0 SITE ASSESSMENT ACTIVITIES

### 5.0 REMEDIATION ACTIVITIES

### 6.0 CONCLUSIONS

### FIGURES

FIGURE 1      OVERVIEW      FIGURE 2      TOPOGRAPHIC

FIGURE 3      SAMPLE LOCATION      FIGURE 4      EXCAVATION

### APPENDICES

APPENDIX A      TABLES

APPENDIX B      PHOTOS

APPENDIX C      INITIAL C-141 AND FINAL/NMOCD CORRESPONDENCE

APPENDIX D      SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E      LABORATORY REPORTS

October 4, 2023

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

**Re: Closure Report**  
**Firefox 4 Federal Com 005H (06.08.23)**  
**Concho Operating, LLC**  
**Site Location: Unit L, S04, T19S, R31E**  
**(Lat 32.6872, Long -103.8805°)**  
**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 Firefox 4 Federal Com 005H. The site is located at 32.6872, -103.8805 within Unit L, S04, T19S, R31E, 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 June 8, 2023, due to a corroded water line check valve leak. It resulted in approximately zero point one five nine (0.159) barrels of produced water and zero (0) barrels of produced water recovered. The impacted area occurred in the pasture, shown in Figure 3. The initial C-141 form is attached in Appendix C.

### **2.0 Site Characterization and Groundwater**

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is approximately 2.19 miles northeast of the site in S35, T18S, R31E and was drilled in 1994. The well has a reported depth to groundwater of 260.67 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

### **3.0 NMAC Regulatory Criteria**

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

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

### **4.0 Site Assessment Activities**

#### **Initial Assessment**

On June 22, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of one (1) sample point (S-1) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 1.5' bgs inside 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 laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

While using a hand auger, a dense layer was encountered in the pasture around 1.25' - 1.5' bgs and could not grab deeper samples. See Table 1 for the analytical results.

### **5.0 Remediation Activities**

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOC division office was notified via email on August 18, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of eight (8) confirmation floor samples were collected (CS-1 through CS-8), and thirteen (13) sidewall samples (SW-1 through SW-13) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 192 cubic yards of material were excavated and transported offsite for proper disposal.

### **6.0 Conclusions**

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



## FIGURES

CARMONA RESOURCES



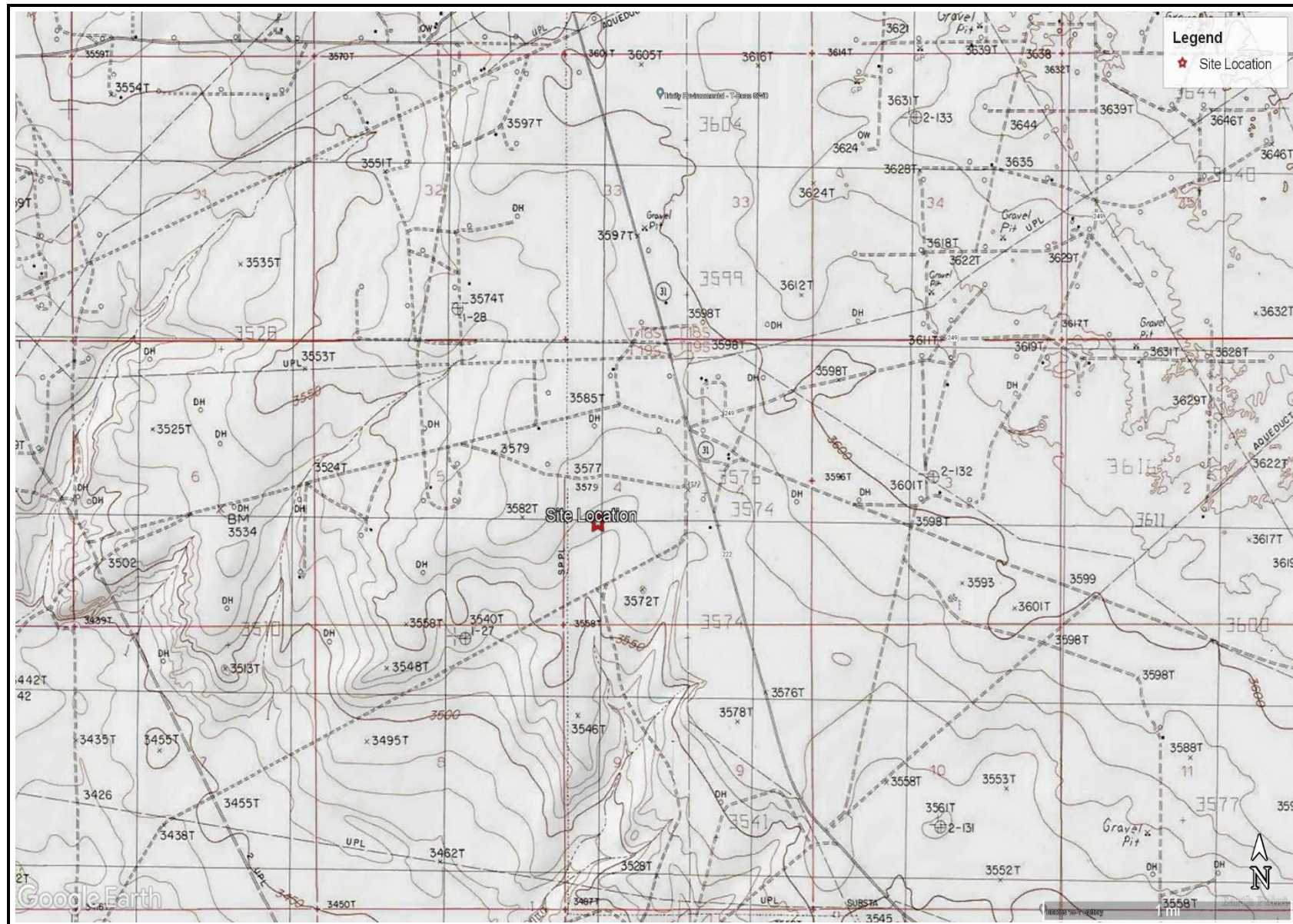


OVERVIEW MAP  
COG OPERATING, LLC  
FIREFOX 4 FEDERAL COM 005H (06.08.23)  
EDDY COUNTY, NEW MEXICO  
32.6872°, -103.8805°



FIGURE 1



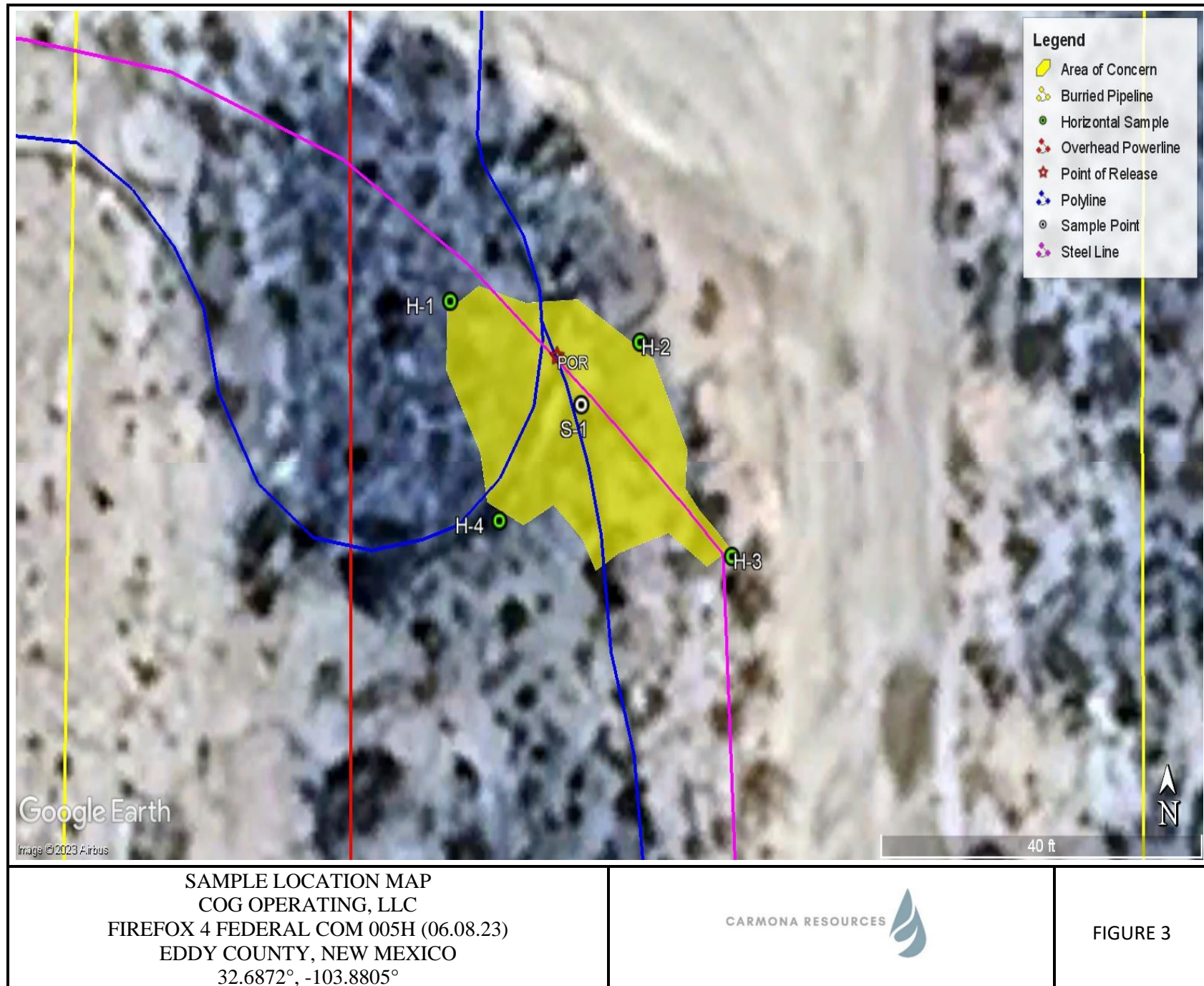


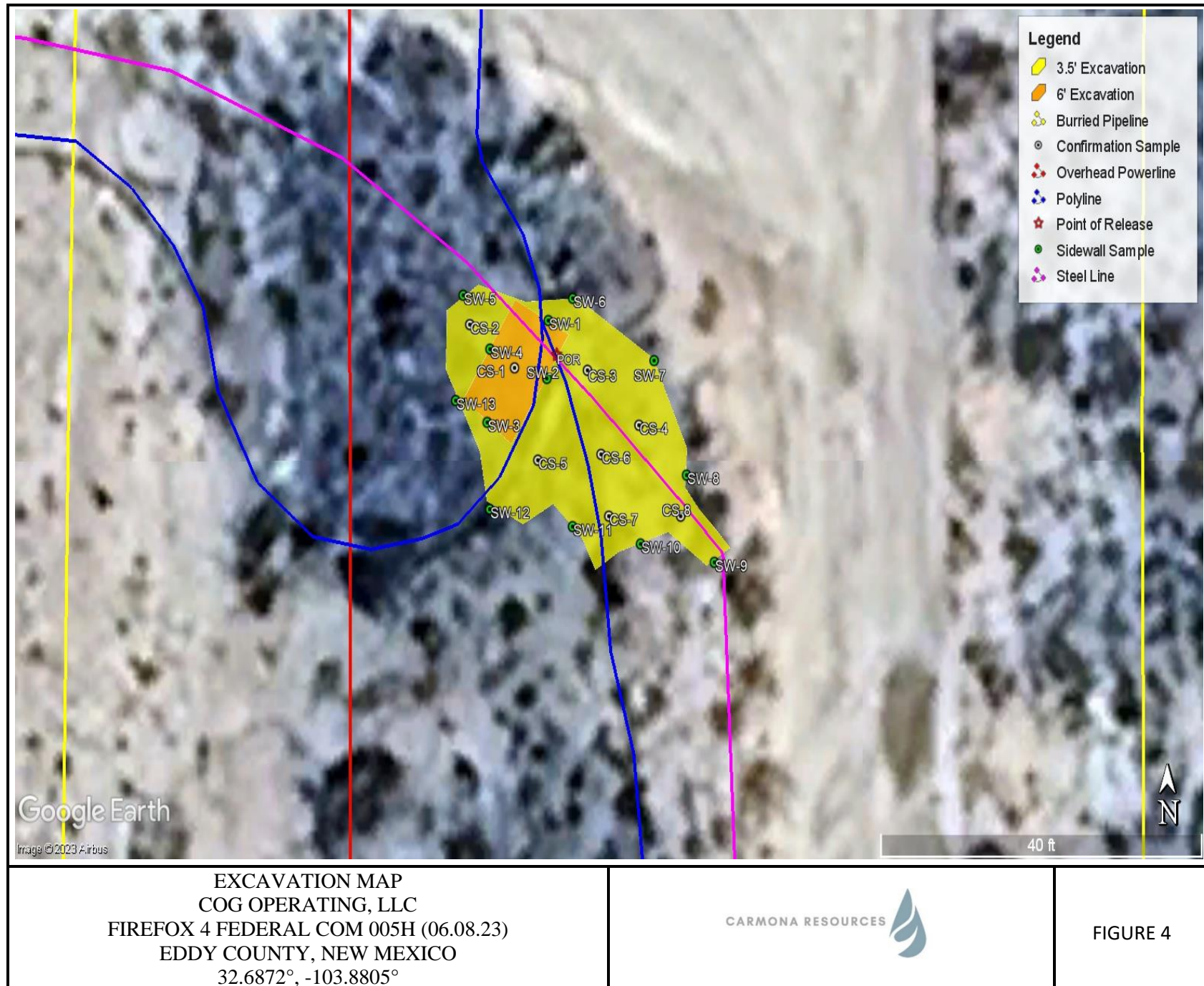
TOPOGRAPHIC MAP  
 COG OPERATING, LLC  
 FIREFOX 4 FEDERAL COM 005H (06.08.23)  
 EDDY COUNTY, NEW MEXICO  
 32.6872°, -103.8805°



FIGURE 2







## APPENDIX A

CARMONA RESOURCES



**Table 1**  
**COG Operating**  
**Firefox 4 Federal Com 005H (06.08.23)**  
**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						
<b>S-1</b>	6/22/2023	0-0.5	<49.9	55.8	<49.9	55.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<b>18,200</b>
	"	1	<49.8	<49.8	<49.8	<49.8	<0.0502	<0.0502	<0.0502	<0.100	<0.100	<b>14,200</b>
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.0498	<0.0498	<0.0498	<0.0996	<0.0996	<b>14,500</b>
<b>H-1</b>	6/22/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	45.7
<b>H-2</b>	6/22/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	54.4
<b>H-3</b>	6/22/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	70.4
<b>H-4</b>	6/22/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	137
<b>Regulatory Criteria<sup>A</sup></b>							<b>100 mg/kg</b>	<b>10 mg/kg</b>			<b>50 mg/kg</b>	<b>600 mg/kg</b>

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

(H) Horizontals

 Removed



**Table 2**  
**COG Operating**  
**Firefox 4 Federal Com 005H (06.08.23)**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	8/22/2023	6.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-2	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-3	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-4	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-5	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-6	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-7	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-8	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-1	8/22/2023	2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	8/22/2023	2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-3	8/22/2023	2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-4	8/22/2023	2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-5	1/20/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-6	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-7	1/20/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-8	1/20/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-9	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-10	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-11	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-12	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-13	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Regulatory Criteria <sup>A</sup>							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

(SW) Sidewall Sample



## APPENDIX B

CARMONA RESOURCES



**PHOTOGRAPHIC LOG****Concho Operating, LLC****Photograph No. 1****Facility:** Firefox 4 Federal Com 005H  
(06.08.23)**County:** Eddy County, New Mexico**Description:**

View Northwest, area of CS-1 and CS-2.

**Photograph No. 2****Facility:** Firefox 4 Federal Com 005H  
(06.08.23)**County:** Eddy County, New Mexico**Description:**

View North, area of CS-3 Through CS-7.

**Photograph No. 3****Facility:** Firefox 4 Federal Com 005H  
(06.08.23)**County:** Eddy County, New Mexico**Description:**

View Southwest, area of CS-8.



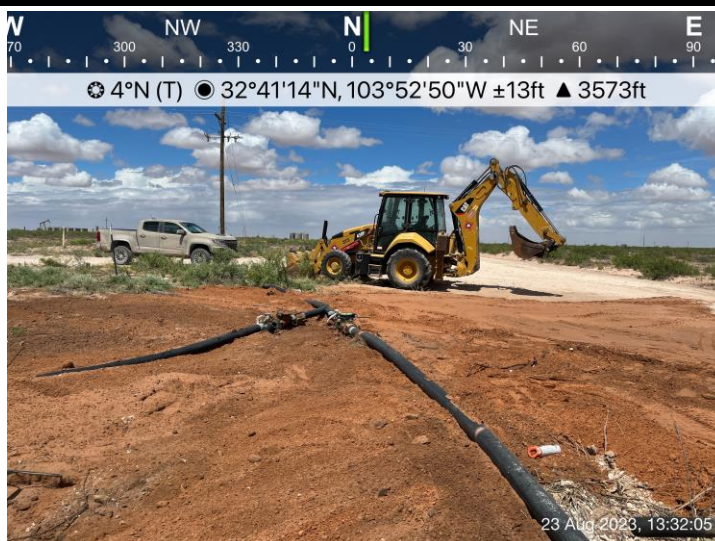


**PHOTOGRAPHIC LOG****Concho Operating, LLC****Photograph No. 4****Facility:** Firefox 4 Federal Com 005H  
(06.08.23)**County:** Eddy County, New Mexico**Description:**

View Northwest, backfilled area of CS-1 and CS-2.

**Photograph No. 5****Facility:** Firefox 4 Federal Com 005H  
(06.08.23)**County:** Eddy County, New Mexico**Description:**

View North, backfilled area of CS-3 through CS-7.

**Photograph No. 6****Facility:** Firefox 4 Federal Com 005H  
(06.08.23)**County:** Eddy County, New Mexico**Description:**

View West, backfilled area of CS-8.



## 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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> 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*

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name _____	Title: _____
Signature: <u>Battani Espinoza</u>	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>06/15/2023</u>

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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Shelly Wells Date: 10/11/2023



Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

### OCD Only

Received by: Shelly Wells Date: 10/11/2023

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: \_\_\_\_\_

NAPP2316649435

L48 Spill Volume Estimate Form - Fill In Gray Cells													
Facility Name & Well Number(s):				Firefox			Release Discovery Date & Time:		6.8.23				
Provide any known details about the event:				check valve leaked				Primary Cause (dropdown):		Secondary Cause (dropdown):			
				Recovered Volume (bbl.) (if available, not included in volume calculations)	Method of Determination (dropdown)	Release Type (dropdown):	> 1/2" of Rain in Last 24 Hours (dropdown):		% Rainwater Recovered (not included in volume calculations, informational):				
BU:	Permian	Asset Area:	DBW - Fine Sands		Field Measurement	Produced Water	No						
Known Volume (dropdown):				No									
Known Area (dropdown):				No									
Spill Calculation - Subsurface Spill - Cylinder												Remediation Recommendation	
Convert Irregular shape into a series of rectangles	Diameter (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)					Total Estimated Contaminated Soil, uncompacted, 25% (yd³.)	Current Rule of Thumb - RMR Handover Volume, (yd³.)	
Rectangle A	10.0	1.0	Off-Pad	13.69%	1.17	0.16					0.30	750	
Rectangle B					0.00						0.00		
Rectangle C					0.00						0.00		
Rectangle D					0.00						0.00		
Rectangle E					0.00						0.00		
Rectangle F					0.00						0.00		
Rectangle G					0.00						0.00		
Rectangle H					0.00						0.00		
Rectangle I					0.00						0.00		
Rectangle J					0.00						0.00		
Total Subsurface Volume Release:						0.1595					0.30	BU	

**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 228752

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 228752
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/15/2023

---

**From:** Wells, Shelly, EMNRD  
**Sent:** Friday, August 18, 2023 3:20 PM  
**To:** Mike Carmona  
**Cc:** Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD  
**Subject:** RE: [EXTERNAL] COG Firefox 4 Federal Com 005H (06.08.23) Sampling Notification - Incident #NAPP2316649435

Good afternoon Mike,

The OCD has received your notification. Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Mike Carmona <[Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com)>  
**Sent:** Friday, August 18, 2023 12:45 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Conner Moehring <[Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)>; Devin Dominguez <[Ddominguez@carmonaresources.com](mailto:Ddominguez@carmonaresources.com)>; Harris, Jacqui <[Jacqui.Harris@conocophillips.com](mailto:Jacqui.Harris@conocophillips.com)>  
**Subject:** [EXTERNAL] COG Firefox 4 Federal Com 005H (06.08.23) Sampling Notification - Incident #NAPP2316649435

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

All,

This email serves as a notification for confirmation sampling on the COG Firefox 4 Federal Com 005H (06.08.23). Sampling is scheduled to begin on Tuesday, August 22<sup>nd</sup>, around 8:00 a.m. Mountain Time. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident #NAPP2316649435

Mike J. Carmona

310 West Wall Street, Suite 500  
Midland TX, 79701  
M: 432-813-1992  
[Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com)

CARMONA RESOURCES



## APPENDIX D

CARMONA RESOURCES





**Nearest water well**

COG Operating

**Legend**

- 0.50 Mile Radius
- 2.19 Miles
- Firefox 4 Federal Com 005H (06.08.2023)
- USGS Water Well



Firefox 4 Federal Com 005H (06.08.2023)


260.67 - Drilled 1994





**Low Karst**


COG Operating

Legend

 Firefox 4 Federal Com 005H (06.08.2023)

 High

 Low

 Medium

Firefox 4 Federal Com 005H (06.08.2023)







# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 01907 POD1</a>	CP	ED		4	2	2	18	19S	31E	603017	3614737	3102			
<a href="#">CP 00829 POD1</a>	CP	LE			2	4	16	19S	31E	606165	3614009*	3382	120		
<a href="#">CP 00849 POD1</a>	CP	LE		3	1	3	35	18S	31E	608012	3618757*	3452	300		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

UTM NAD83 Radius Search (in meters):

**Easting (X):** 604948

**Northing (Y):** 3617165

**Radius:** 4000

\*UTM location was derived from PLSS - see Help

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

6/19/23 7:26 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 324159103503801

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

USGS 324159103503801 18S.31E.35.31324

Eddy County, New Mexico  
Latitude 32°42'07.3", Longitude 103°50'50.1" NAD83  
Land-surface elevation 3,630 feet above NAVD88  
The depth of the well is 300 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1971-04-05			D 62610		3367.36	NGVD29	1		Z	
1971-04-05			D 62611		3368.92	NAVD88	1		Z	
1971-04-05			D 72019	261.08			1		Z	
1976-05-27			D 62610		3367.91	NGVD29	1		Z	
1976-05-27			D 62611		3369.47	NAVD88	1		Z	
1976-05-27			D 72019	260.53			1		Z	
1983-04-11			D 62610		3367.94	NGVD29	1		Z	
1983-04-11			D 62611		3369.50	NAVD88	1		Z	
1983-04-11			D 72019	260.50			1		Z	
1987-01-26			D 62610		3367.44	NGVD29	1		S	
1987-01-26			D 62611		3369.00	NAVD88	1		S	
1987-01-26			D 72019	261.00			1		S	
1994-03-17			D 62610		3367.77	NGVD29	1		S	
1994-03-17			D 62611		3369.33	NAVD88	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	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1994-03-17			D	72019	260.67		1		S	

Explanation

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

[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?>

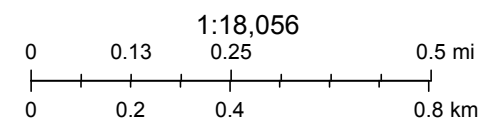


Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2023-06-19 09:27:52 EDT  
0.34 0.3 nadww02

# New Mexico NFHL Data



June 19, 2023



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

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

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

## APPENDIX E

CARMONA RESOURCES





Environment Testing

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

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/27/2023 9:53:55 AM

## JOB DESCRIPTION

Firefox 4 Federal Com 005H (06.08.23)  
SDG NUMBER Eddy County, New Mexico

## JOB NUMBER

880-29945-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

# 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  
6/27/2023 9:53:55 AM

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

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Laboratory Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	9
QC Sample Results . . . . .	10
QC Association Summary . . . . .	14
Lab Chronicle . . . . .	16
Certification Summary . . . . .	17
Method Summary . . . . .	18
Sample Summary . . . . .	19
Chain of Custody . . . . .	20
Receipt Checklists . . . . .	21

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



## Definitions/Glossary

Client: Carmona Resources

Job ID: 880-29945-1

Project/Site: Firefox 4 Federal Com 005H (06.08.23)

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: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

**Job ID: 880-29945-1**

**Laboratory: Eurofins Midland**

**Narrative**

**Job Narrative  
880-29945-1**

**Receipt**

The samples were received on 6/23/2023 11:01 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 -1.5°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-0.5') (880-29945-1), S-1 (1') (880-29945-2) and S-1 (1.5') (880-29945-3).

**GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (1.5') (880-29945-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-56149/51). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-56149 recovered above the upper control limit for Benzene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-56149/51).

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-29951-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-56226 and analytical batch 880-56309 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-56309 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. An acceptable CCV was ran within the 12 hour window therefore the data was qualified and reported. The associated sample is impacted: (CCV 880-56309/31).

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: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29945-1

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

## 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		06/23/23 12:05	06/24/23 02:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 02:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 02:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/23/23 12:05	06/24/23 02:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 02:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/23/23 12:05	06/24/23 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	06/23/23 12:05	06/24/23 02:29	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/23/23 12:05	06/24/23 02:29	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			06/26/23 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.8		49.9		mg/Kg			06/27/23 10:35	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		06/23/23 15:55	06/27/23 00:26	1
Diesel Range Organics (Over C10-C28)	55.8		49.9		mg/Kg		06/23/23 15:55	06/27/23 00:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	06/23/23 15:55	06/27/23 00:26	1
o-Terphenyl	95		70 - 130	06/23/23 15:55	06/27/23 00:26	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18200		252		mg/Kg			06/23/23 19:11	50

Client Sample ID: S-1 (1')

Lab Sample ID: 880-29945-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0502	U	0.0502		mg/Kg		06/23/23 12:05	06/24/23 02:50	25
Toluene	<0.0502	U	0.0502		mg/Kg		06/23/23 12:05	06/24/23 02:50	25
Ethylbenzene	<0.0502	U	0.0502		mg/Kg		06/23/23 12:05	06/24/23 02:50	25
m-Xylene & p-Xylene	<0.100	U	0.100		mg/Kg		06/23/23 12:05	06/24/23 02:50	25
o-Xylene	<0.0502	U	0.0502		mg/Kg		06/23/23 12:05	06/24/23 02:50	25
Xylenes, Total	<0.100	U	0.100		mg/Kg		06/23/23 12:05	06/24/23 02:50	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	06/23/23 12:05	06/24/23 02:50	25
1,4-Difluorobenzene (Surr)	97		70 - 130	06/23/23 12:05	06/24/23 02:50	25

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1')

Lab Sample ID: 880-29945-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.100	U	0.100		mg/Kg			06/26/23 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/27/23 10:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 00:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 00:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				06/23/23 15:55	06/27/23 00:47	1
o-Terphenyl	97		70 - 130				06/23/23 15:55	06/27/23 00:47	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14200		99.6		mg/Kg			06/23/23 19:16	20

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-29945-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0498	U	0.0498		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
Toluene	<0.0498	U	0.0498		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
Ethylbenzene	<0.0498	U	0.0498		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
m-Xylene & p-Xylene	<0.0996	U	0.0996		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
o-Xylene	<0.0498	U	0.0498		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
Xylenes, Total	<0.0996	U	0.0996		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130				06/23/23 12:05	06/24/23 03:11	25
1,4-Difluorobenzene (Surr)	98		70 - 130				06/23/23 12:05	06/24/23 03:11	25

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0996	U	0.0996		mg/Kg			06/26/23 08:48	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			06/27/23 10:35	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		06/23/23 15:55	06/27/23 01:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 01:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')  
Date Collected: 06/22/23 00:00  
Date Received: 06/23/23 11:01

Lab Sample ID: 880-29945-3  
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 01:09	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	98		70 - 130				06/23/23 15:55	06/27/23 01:09	1	
o-Terphenyl	101		70 - 130				06/23/23 15:55	06/27/23 01:09	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	14500		99.2		mg/Kg			06/23/23 19:22	20	



## Surrogate Summary

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-29945-1	S-1 (0-0.5')	138 S1+	91
880-29945-2	S-1 (1')	136 S1+	97
880-29945-3	S-1 (1.5')	148 S1+	98
880-29949-A-1-F MS	Matrix Spike	114	88
880-29949-A-1-G MSD	Matrix Spike Duplicate	123	85
LCS 880-56204/1-A	Lab Control Sample	111	103
LCSD 880-56204/2-A	Lab Control Sample Dup	106	92
MB 880-56108/5-B	Method Blank	116	77
MB 880-56204/5-A	Method Blank	104	86
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29945-1	S-1 (0-0.5')	92	95
880-29945-2	S-1 (1')	94	97
880-29945-3	S-1 (1.5')	98	101
880-29951-A-1-D MS	Matrix Spike	103	96
LCS 880-56226/2-A	Lab Control Sample	96	97
LCSD 880-56226/3-A	Lab Control Sample Dup	92	90
MB 880-56226/1-A	Method Blank	109	117
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
880-29951-A-1-E MSD	Matrix Spike Duplicate		
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

## QC Sample Results

Client: Carmona Resources

Job ID: 880-29945-1

Project/Site: Firefox 4 Federal Com 005H (06.08.23)

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-56108/5-B

Matrix: Solid

Analysis Batch: 56149

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 10:33	06/23/23 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	06/23/23 10:33	06/23/23 11:44	1
1,4-Difluorobenzene (Surr)	77		70 - 130	06/23/23 10:33	06/23/23 11:44	1

Lab Sample ID: MB 880-56204/5-A

Matrix: Solid

Analysis Batch: 56149

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/23/23 23:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/23/23 12:05	06/23/23 23:41	1
1,4-Difluorobenzene (Surr)	86		70 - 130	06/23/23 12:05	06/23/23 23:41	1

Lab Sample ID: LCS 880-56204/1-A

Matrix: Solid

Analysis Batch: 56149

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09204		mg/Kg		92	70 - 130
Toluene	0.100	0.1063		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2103		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-56204/2-A

Matrix: Solid

Analysis Batch: 56149

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56204

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09646		mg/Kg		96	70 - 130	5	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

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

**Lab Sample ID: LCSD 880-56204/2-A**  
**Matrix: Solid**  
**Analysis Batch: 56149**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 56204**

Analyte	Spike			LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Result	Qualifier				Limits	RPD	Limit
Toluene	0.100	0.1099				mg/Kg		110	70 - 130	3	35
Ethylbenzene	0.100	0.1014				mg/Kg		101	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2084				mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1009				mg/Kg		101	70 - 130	1	35
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		70 - 130								
1,4-Difluorobenzene (Surr)	92		70 - 130								

**Lab Sample ID: 880-29949-A-1-F MS**  
**Matrix: Solid**  
**Analysis Batch: 56149**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 56204**

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Benzene	<0.00200	U	0.100	0.09342		mg/Kg		93	70 - 130		
Toluene	<0.00200	U	0.100	0.1148		mg/Kg		115	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.1085		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2279		mg/Kg		114	70 - 130		
o-Xylene	<0.00200	U	0.100	0.1102		mg/Kg		109	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	114		70 - 130								
1,4-Difluorobenzene (Surr)	88		70 - 130								

**Lab Sample ID: 880-29949-A-1-G MSD**  
**Matrix: Solid**  
**Analysis Batch: 56149**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 56204**

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Benzene	<0.00200	U	0.0994	0.08654		mg/Kg		87	70 - 130	8	35
Toluene	<0.00200	U	0.0994	0.1141		mg/Kg		115	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0994	0.1131		mg/Kg		114	70 - 130	4	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.2445		mg/Kg		123	70 - 130	7	35
o-Xylene	<0.00200	U	0.0994	0.1183		mg/Kg		119	70 - 130	7	35
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	123		70 - 130								
1,4-Difluorobenzene (Surr)	85		70 - 130								

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

**Lab Sample ID: MB 880-56226/1-A**  
**Matrix: Solid**  
**Analysis Batch: 56309**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 56226**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/26/23 23:01	1

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-56226/1-A

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/26/23 23:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/26/23 23:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				06/23/23 15:55	06/26/23 23:01	1
o-Terphenyl	117		70 - 130				06/23/23 15:55	06/26/23 23:01	1

Lab Sample ID: LCS 880-56226/2-A

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	876.1		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	980.0		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	96		70 - 130				
o-Terphenyl	97		70 - 130				

Lab Sample ID: LCSD 880-56226/3-A

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	887.0		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	979.1		mg/Kg		98	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	92		70 - 130						
o-Terphenyl	90		70 - 130						

Lab Sample ID: 880-29951-A-1-D MS

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1274		mg/Kg		127	70 - 130
Diesel Range Organics (Over C10-C28)	496	F1	1000	1124	F1	mg/Kg		63	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	96		70 - 130						

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29951-A-1-E MSD

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	991.1		mg/Kg					
Diesel Range Organics (Over C10-C28)	496	F1	998	1065		mg/Kg					
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane											
o-Terphenyl											

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56168/1-A

Matrix: Solid

Analysis Batch: 56220

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			06/23/23 17:49	1

Lab Sample ID: LCS 880-56168/2-A

Matrix: Solid

Analysis Batch: 56220

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.3		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-56168/3-A

Matrix: Solid

Analysis Batch: 56220

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-29929-A-1-E MS

Matrix: Solid

Analysis Batch: 56220

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	85.3		252	347.9		mg/Kg		104	90 - 110

Lab Sample ID: 880-29929-A-1-F MSD

Matrix: Solid

Analysis Batch: 56220

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	85.3		252	345.3		mg/Kg		103	90 - 110	1	20

Eurofins Midland



## QC Association Summary

Client: Carmona Resources  
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
 SDG: Eddy County, New Mexico

## GC VOA

## Prep Batch: 56108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56108/5-B	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 56149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	8021B	56204
880-29945-2	S-1 (1')	Total/NA	Solid	8021B	56204
880-29945-3	S-1 (1.5')	Total/NA	Solid	8021B	56204
MB 880-56108/5-B	Method Blank	Total/NA	Solid	8021B	56108
MB 880-56204/5-A	Method Blank	Total/NA	Solid	8021B	56204
LCS 880-56204/1-A	Lab Control Sample	Total/NA	Solid	8021B	56204
LCSD 880-56204/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56204
880-29949-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	56204
880-29949-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56204

## Prep Batch: 56204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	5035	
880-29945-2	S-1 (1')	Total/NA	Solid	5035	
880-29945-3	S-1 (1.5')	Total/NA	Solid	5035	
MB 880-56204/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56204/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56204/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29949-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-29949-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 56274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29945-2	S-1 (1')	Total/NA	Solid	Total BTEX	
880-29945-3	S-1 (1.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 56226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29945-2	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-29945-3	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-56226/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56226/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56226/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29951-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29951-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 56309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	56226
880-29945-2	S-1 (1')	Total/NA	Solid	8015B NM	56226
880-29945-3	S-1 (1.5')	Total/NA	Solid	8015B NM	56226
MB 880-56226/1-A	Method Blank	Total/NA	Solid	8015B NM	56226
LCS 880-56226/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56226

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

## GC Semi VOA (Continued)

## Analysis Batch: 56309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-56226/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56226
880-29951-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	56226
880-29951-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56226

## Analysis Batch: 56403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-29945-2	S-1 (1')	Total/NA	Solid	8015 NM	
880-29945-3	S-1 (1.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 56168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-29945-2	S-1 (1')	Soluble	Solid	DI Leach	
880-29945-3	S-1 (1.5')	Soluble	Solid	DI Leach	
MB 880-56168/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56168/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56168/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29929-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-29929-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 56220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Soluble	Solid	300.0	56168
880-29945-2	S-1 (1')	Soluble	Solid	300.0	56168
880-29945-3	S-1 (1.5')	Soluble	Solid	300.0	56168
MB 880-56168/1-A	Method Blank	Soluble	Solid	300.0	56168
LCS 880-56168/2-A	Lab Control Sample	Soluble	Solid	300.0	56168
LCSD 880-56168/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56168
880-29929-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	56168
880-29929-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	56168

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29945-1

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 02:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56274	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56403	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 00:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		50			56220	06/23/23 19:11	CH	EET MID

Client Sample ID: S-1 (1')

Lab Sample ID: 880-29945-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	56149	06/24/23 02:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56274	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56403	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 00:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		20			56220	06/23/23 19:16	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-29945-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	56149	06/24/23 03:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56274	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56403	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 01:09	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		20			56220	06/23/23 19:22	CH	EET MID

## Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
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	T104704400-22-25	06-30-23

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

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

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



Method Summary

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
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: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1  
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29945-1	S-1 (0-0.5')	Solid	06/22/23 00:00	06/23/23 11:01
880-29945-2	S-1 (1')	Solid	06/22/23 00:00	06/23/23 11:01
880-29945-3	S-1 (1.5')	Solid	06/22/23 00:00	06/23/23 11:01

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



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 <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:									

Work Order No: 209945

[illegible]

Comments Email to Mike Carrona / [Mccarrona@carmonaresources.com](mailto:Mccarrona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	6-23-23 1101		

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-29945-1

SDG Number: Eddy County, New Mexico

Login Number: 29945

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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





Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/27/2023 9:54:02 AM

## JOB DESCRIPTION

Firefox 4 Federal Com 005H (06.08.23)  
SDG NUMBER Eddy County, New Mexico

## JOB NUMBER

880-29949-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

# 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  
6/27/2023 9:54:02 AM

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

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Laboratory Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	9
QC Sample Results . . . . .	10
QC Association Summary . . . . .	14
Lab Chronicle . . . . .	16
Certification Summary . . . . .	18
Method Summary . . . . .	19
Sample Summary . . . . .	20
Chain of Custody . . . . .	21
Receipt Checklists . . . . .	22

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

## Definitions/Glossary

Client: Carmona Resources

Job ID: 880-29949-1

Project/Site: Firefox 4 Federal Com 005H (06.08.23)

SDG: Eddy County, New Mexico

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
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
SQL	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: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

Job ID: 880-29949-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-29949-1
-----------	------------------------------

Receipt

The samples were received on 6/23/2023 11:01 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 -1.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-29949-1), H-2 (0-0.5') (880-29949-2), H-3 (0-0.5') (880-29949-3) and H-4 (0-0.5') (880-29949-4).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-56149/51). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-56149 recovered above the upper control limit for Benzene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-56149/51).

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

GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-29951-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-56226 and analytical batch 880-56309 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-56309 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. An acceptable CCV was ran within the 12 hour window therefore the data was qualified and reported. The associated sample is impacted: (CCV 880-56309/31).

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: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29949-1

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

## 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		06/23/23 12:05	06/24/23 00:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 00:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 00:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/24/23 00:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 00:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/24/23 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	06/23/23 12:05	06/24/23 00:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/23/23 12:05	06/24/23 00:03	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/26/23 08:48	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			06/27/23 10:35	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		06/23/23 15:55	06/27/23 01:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 01:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	06/23/23 15:55	06/27/23 01:30	1
o-Terphenyl	95		70 - 130	06/23/23 15:55	06/27/23 01:30	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.7		5.02		mg/Kg			06/23/23 19:28	1

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

Lab Sample ID: 880-29949-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

## 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		06/23/23 12:05	06/24/23 00:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 00:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 00:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/23/23 12:05	06/24/23 00:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 00:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/23/23 12:05	06/24/23 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/23/23 12:05	06/24/23 00:24	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/23/23 12:05	06/24/23 00:24	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29949-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

## 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			06/26/23 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/27/23 10:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 01:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 01:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				06/23/23 15:55	06/27/23 01:51	1
o-Terphenyl	89		70 - 130				06/23/23 15:55	06/27/23 01:51	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.4		5.04		mg/Kg			06/23/23 19:46	1

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

Lab Sample ID: 880-29949-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

## 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		06/23/23 12:05	06/24/23 00:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 00:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 00:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/23/23 12:05	06/24/23 00:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 00:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/23/23 12:05	06/24/23 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/23/23 12:05	06/24/23 00:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130				06/23/23 12:05	06/24/23 00:45	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/26/23 08:48	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			06/27/23 10:35	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		06/23/23 15:55	06/27/23 02:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/27/23 02:12	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29949-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/27/23 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				06/23/23 15:55	06/27/23 02:12	1
o-Terphenyl	92		70 - 130				06/23/23 15:55	06/27/23 02:12	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.4		4.98		mg/Kg			06/23/23 19:51	1

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

Lab Sample ID: 880-29949-4

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

## 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		06/23/23 12:05	06/24/23 01:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 01:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 01:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/24/23 01:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 01:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/24/23 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				06/23/23 12:05	06/24/23 01:06	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/23/23 12:05	06/24/23 01:06	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/26/23 08:48	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			06/27/23 10:35	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		06/23/23 15:55	06/27/23 02:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/27/23 02:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/27/23 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				06/23/23 15:55	06/27/23 02:33	1
o-Terphenyl	91		70 - 130				06/23/23 15:55	06/27/23 02:33	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		5.00		mg/Kg			06/23/23 20:09	1

Eurofins Midland

## Surrogate Summary

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-29949-1	H-1 (0-0.5')	115	94
880-29949-1 MS	H-1 (0-0.5')	114	88
880-29949-1 MSD	H-1 (0-0.5')	123	85
880-29949-2	H-2 (0-0.5')	113	100
880-29949-3	H-3 (0-0.5')	106	94
880-29949-4	H-4 (0-0.5')	113	95
LCS 880-56204/1-A	Lab Control Sample	111	103
LCSD 880-56204/2-A	Lab Control Sample Dup	106	92
MB 880-56108/5-B	Method Blank	116	77
MB 880-56204/5-A	Method Blank	104	86
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29949-1	H-1 (0-0.5')	96	95
880-29949-2	H-2 (0-0.5')	89	89
880-29949-3	H-3 (0-0.5')	99	92
880-29949-4	H-4 (0-0.5')	94	91
880-29951-A-1-D MS	Matrix Spike	103	96
LCS 880-56226/2-A	Lab Control Sample	96	97
LCSD 880-56226/3-A	Lab Control Sample Dup	92	90
MB 880-56226/1-A	Method Blank	109	117
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
880-29951-A-1-E MSD	Matrix Spike Duplicate		
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-56108/5-B

Matrix: Solid

Analysis Batch: 56149

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 10:33	06/23/23 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	06/23/23 10:33	06/23/23 11:44	1
1,4-Difluorobenzene (Surr)	77		70 - 130	06/23/23 10:33	06/23/23 11:44	1

Lab Sample ID: MB 880-56204/5-A

Matrix: Solid

Analysis Batch: 56149

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/23/23 23:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/23/23 12:05	06/23/23 23:41	1
1,4-Difluorobenzene (Surr)	86		70 - 130	06/23/23 12:05	06/23/23 23:41	1

Lab Sample ID: LCS 880-56204/1-A

Matrix: Solid

Analysis Batch: 56149

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09204		mg/Kg		92	70 - 130
Toluene	0.100	0.1063		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2103		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-56204/2-A

Matrix: Solid

Analysis Batch: 56149

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56204

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09646		mg/Kg		96	70 - 130	5	35

Eurofins Midland



## QC Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-56204/2-A

Matrix: Solid

Analysis Batch: 56149

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56204

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1099		mg/Kg		110	70 - 130	3	35
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2084		mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-29949-1 MS

Matrix: Solid

Analysis Batch: 56149

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

Prep Type: Total/NA

Prep Batch: 56204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09342		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.100	0.1148		mg/Kg		115	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1085		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2279		mg/Kg		114	70 - 130
o-Xylene	<0.00200	U	0.100	0.1102		mg/Kg		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-29949-1 MSD

Matrix: Solid

Analysis Batch: 56149

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

Prep Type: Total/NA

Prep Batch: 56204

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.08654		mg/Kg		87	70 - 130	8	35
Toluene	<0.00200	U	0.0994	0.1141		mg/Kg		115	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0994	0.1131		mg/Kg		114	70 - 130	4	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.2445		mg/Kg		123	70 - 130	7	35
o-Xylene	<0.00200	U	0.0994	0.1183		mg/Kg		119	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

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

Lab Sample ID: MB 880-56226/1-A

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56226

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		06/23/23 15:55	06/26/23 23:01	1

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-56226/1-A

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/26/23 23:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/26/23 23:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				06/23/23 15:55	06/26/23 23:01	1
o-Terphenyl	117		70 - 130				06/23/23 15:55	06/26/23 23:01	1

Lab Sample ID: LCS 880-56226/2-A

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	876.1		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	980.0		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	96		70 - 130				
o-Terphenyl	97		70 - 130				

Lab Sample ID: LCSD 880-56226/3-A

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	887.0		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	979.1		mg/Kg		98	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	92		70 - 130						
o-Terphenyl	90		70 - 130						

Lab Sample ID: 880-29951-A-1-D MS

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1274		mg/Kg		127	70 - 130
Diesel Range Organics (Over C10-C28)	496	F1	1000	1124	F1	mg/Kg		63	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	96		70 - 130						

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29951-A-1-E MSD

Matrix: Solid

Analysis Batch: 56309

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	991.1		mg/Kg					
Diesel Range Organics (Over C10-C28)	496	F1	998	1065		mg/Kg					
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane											
o-Terphenyl											

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56168/1-A

Matrix: Solid

Analysis Batch: 56220

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			06/23/23 17:49	1

Lab Sample ID: LCS 880-56168/2-A

Matrix: Solid

Analysis Batch: 56220

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.3		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-56168/3-A

Matrix: Solid

Analysis Batch: 56220

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-29949-1 MS

Matrix: Solid

Analysis Batch: 56220

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	45.7		251	298.7		mg/Kg		101	90 - 110

Lab Sample ID: 880-29949-1 MSD

Matrix: Solid

Analysis Batch: 56220

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	45.7		251	297.2		mg/Kg		100	90 - 110	0	20

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

## GC VOA

## Prep Batch: 56108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56108/5-B	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 56149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	8021B	56204
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	8021B	56204
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	8021B	56204
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	8021B	56204
MB 880-56108/5-B	Method Blank	Total/NA	Solid	8021B	56108
MB 880-56204/5-A	Method Blank	Total/NA	Solid	8021B	56204
LCS 880-56204/1-A	Lab Control Sample	Total/NA	Solid	8021B	56204
LCSD 880-56204/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56204
880-29949-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	56204
880-29949-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	56204

## Prep Batch: 56204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-56204/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56204/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56204/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29949-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-29949-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

## Analysis Batch: 56272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 56226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-56226/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56226/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56226/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29951-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29951-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 56309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	56226

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

## GC Semi VOA (Continued)

## Analysis Batch: 56309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	56226
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	56226
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	56226
MB 880-56226/1-A	Method Blank	Total/NA	Solid	8015B NM	56226
LCS 880-56226/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56226
LCSD 880-56226/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56226
880-29951-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	56226
880-29951-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56226

## Analysis Batch: 56404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 56168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-29949-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-29949-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-29949-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-56168/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56168/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56168/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29949-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-29949-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

## Analysis Batch: 56220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Soluble	Solid	300.0	56168
880-29949-2	H-2 (0-0.5')	Soluble	Solid	300.0	56168
880-29949-3	H-3 (0-0.5')	Soluble	Solid	300.0	56168
880-29949-4	H-4 (0-0.5')	Soluble	Solid	300.0	56168
MB 880-56168/1-A	Method Blank	Soluble	Solid	300.0	56168
LCS 880-56168/2-A	Lab Control Sample	Soluble	Solid	300.0	56168
LCSD 880-56168/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56168
880-29949-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	56168
880-29949-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	56168

Eurofins Midland



## Lab Chronicle

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29949-1

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 00:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56272	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56404	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 01:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			56220	06/23/23 19:28	CH	EET MID

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

Lab Sample ID: 880-29949-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 00:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56272	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56404	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 01:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			56220	06/23/23 19:46	CH	EET MID

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

Lab Sample ID: 880-29949-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 00:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56272	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56404	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 02:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			56220	06/23/23 19:51	CH	EET MID

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

Lab Sample ID: 880-29949-4

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 01:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56272	06/26/23 08:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')  
Date Collected: 06/22/23 00:00  
Date Received: 06/23/23 11:01

Lab Sample ID: 880-29949-4  
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			56404	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 02:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			56220	06/23/23 20:09	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
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	T104704400-22-25	06-30-23

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

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

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

Method Summary

Client: Carmona Resources  
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
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: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1  
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29949-1	H-1 (0-0.5')	Solid	06/22/23 00:00	06/23/23 11:01
880-29949-2	H-2 (0-0.5')	Solid	06/22/23 00:00	06/23/23 11:01
880-29949-3	H-3 (0-0.5')	Solid	06/22/23 00:00	06/23/23 11:01
880-29949-4	H-4 (0-0.5')	Solid	06/22/23 00:00	06/23/23 11:01

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






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/ST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> IRC	<input type="checkbox"/> Iperfund
State of Project:				
Reporting Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RRP	<input type="checkbox"/> Level IV
Deliverables EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other

Work Order No: 29949

[illegible]

Comments: Email to Mike Carmona / [Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	6-23-23		
	1101		

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-29949-1

SDG Number: Eddy County, New Mexico

Login Number: 29949

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	



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

August 24, 2023

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: FIREFOX 4 FEDERAL COM 005H (06.08.23)

Enclosed are the results of analyses for samples received by the laboratory on 08/22/23 16:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: CS - 1 (6') (H234580-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: CS - 2 (3.5') (H234580-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEx	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: CS - 3 (3.5') (H234580-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEx	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: CS - 4 (3.5') (H234580-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEX	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: CS - 5 (3.5') (H234580-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEx	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: CS - 6 (3.5') (H234580-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEx	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: CS - 7 (3.5') (H234580-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEx	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: CS - 8 (3.5') (H234580-08)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEX	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 1 (2.5') (H234580-09)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEx	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 2 (2.5') (H234580-10)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEX	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 64.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 3 (2.5') (H234580-11)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEx	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 4 (2.5') (H234580-12)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEx	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 5 (3.5') (H234580-13)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEx	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 6 (3.5') (H234580-14)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEX	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 7 (3.5') (H234580-15)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEX	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 8 (3.5') (H234580-16)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEx	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 9 (3.5') (H234580-17)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEX	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 10 (3.5') (H234580-18)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 11 (3.5') (H234580-19)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 12 (3.5') (H234580-20)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEx	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

**Sample ID: SW - 13 (3.5') (H234580-21)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2023	ND	1.91	95.3	2.00	3.49		
Toluene*	<0.050	0.050	08/24/2023	ND	1.89	94.5	2.00	2.69		
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	1.96	98.1	2.00	1.09		
Total Xylenes*	<0.150	0.150	08/24/2023	ND	5.81	96.8	6.00	0.698		
Total BTX	<0.300	0.300	08/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/23/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

---

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 14234580

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	<input type="checkbox"/> PRP <input type="checkbox"/> Rowfields <input type="checkbox"/> RC <input type="checkbox"/> Iperfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Firefox 4 Federal Com 005H (06.08.23)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number:	2062																	None: NO DI Water: H <sub>2</sub> O			
Project Location:	Eddy County, New Mexico	Due Date:	24 hrs															Cool: Cool MeOH: Me			
Sampler's Name:	FV		3 Days															HCL: HC HNO <sub>3</sub> : HN			
PO #:																		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na			
SAMPLE RECEIPT				Temp Blank:	Yes No	Wet Ice:	Yes No													H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes No	Thermometer ID:	140													NaHSO <sub>4</sub> : NABIS					
Cooler Custody Seals:	Yes No	Correction Factor:														Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>					
Sample Custody Seals:	Yes No	Temperature Reading:	21.2													Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:														NaOH+Ascorbic Acid: SAPC					

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH												Sample Comments
CS-1 (6')	8/22/2023		X		C	1	X	X	X										
CS-2 (3.5')	8/22/2023		X		C	1	X	X	X										
CS-3 (3.5')	8/22/2023		X		C	1	X	X	X										
CS-4 (3.5')	8/22/2023		X		C	1	X	X	X										
CS-5 (3.5')	8/22/2023		X		C	1	X	X	X										
CS-6 (3.5')	8/22/2023		X		C	1	X	X	X										
CS-7 (3.5')	8/22/2023		X		C	1	X	X	X										
CS-8 (3.5')	8/22/2023		X		C	1	X	X	X										
SW-1 (2.5')	8/22/2023		X		C	1	X	X	X										
SW-2 (2.5')	8/22/2023		X		C	1	X	X	X										

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conner Moehring</i>	8/22/23 16:20	<i>Mike Carmona</i>	

## Chain of Custody

Work Order No: 4234580

Page 2 of 3

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:	<a href="mailto:mcarmona@carmonaresources.com">mcarmona@carmonaresources.com</a>

Work Order Comments									
Program:	UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Crownfields	<input type="checkbox"/> RC	<input type="checkbox"/> \$	<input type="checkbox"/> pertund	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State of Project:									
Reporting Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	ST/UST	<input type="checkbox"/>	RP	<input type="checkbox"/>	Level IV	<input type="checkbox"/>
Deliverables:	EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:				

Project Name:	Firefox 4 Federal Com 005H (06.08.23)	Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes		
Project Number:	2062	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush														None: NO	DI Water: H <sub>2</sub> O
Project Location	Eddy County, New Mexico	Due Date:	24 Hrs													Cool: Cool	MeOH: Me
Sampler's Name:	FV		3 days													HCL: HC	HNO <sub>3</sub> : HN
PO #:																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												H <sub>3</sub> PO <sub>4</sub> : HP
Received Inact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140														NaHSO <sub>4</sub> : NABIS
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:															Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	2.2°C														Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:															NaOH+Ascorbic Acid: SAPC
Parameters																	
BTEX 8021B																	
H 8015M ( GRO + DRO + MRO)																	
Chloride 4500																	

[illegible]

Comments: Email to Mike Carmona / [Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/22/25 14:20		



## Chain of Custody

**Work Order No:**

4234580

Page 3 of 3

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:	<a href="mailto:incarmona@carmonaresources.com">incarmona@carmonaresources.com</a>

**Work Order Comments**

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



State of Project:

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

Deliverables: EDD ☐ ADAPT ☐ Other: ☐

[illegible][illegible]

Comments: Email to Mike Carmona / [Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/22/23 11:00		

**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 274132

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 274132
	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 #NAPP2316649435 FIREFOX 4 FEDERAL COM 005H, thank you. This Remediation Closure Report is approved. 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".	2/20/2024