

Spill Calculation - Subsurface Spill - Rectangle												Remediation Recommendation	
<i>Received by OCD: 9/5/2025 8:26:34 AM</i>												Total Estimated Contaminated Soil, uncompacted, 25% (yd³.)	<i>Page 1 of 124</i>
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture (%)	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)		Current Rule of Thumb - RMR Handover Volume, (yd³.)	
Rectangle A	35.0	15.0	0.2	Off-Pad	13.69%	1.56	0.21		0.00	0.21	0.41	750	
Rectangle B				Off-Pad	13.69%	0.00	0.00		0.00	0.00	0.00		
Rectangle C				Off-Pad	13.69%	0.00	0.00		0.00	0.00	0.00		
Rectangle D				Off-Pad	13.69%	0.00	0.00		0.00	0.00	0.00		
Rectangle E				Off-Pad	13.69%	0.00	0.00		0.00	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 Released:							0.2132		0.0000	0.2132	0.41	BU	
<i>Released to Imaging: 10/7/2025 3:26:02 PM</i>													



## SITE INFORMATION

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**Closure Report**  
**Diamondback 22 State Com 5H (11.29.24)**  
**Eddy County, New Mexico**  
**Incident ID: NAPP2434539621**  
**Unit A Sec 22 T26S R28E**  
**32.03431°, -104.07009°**

**Crude Oil/Produced Water Release**  
**Point of Release: Flare Fire**  
**Release Date: 11.29.2024**  
**Volume Released: 0.32 Barrels of Crude Oil/Produced Water Mix**  
**Volume Recovered: 0 barrels of Crude Oil/Produced Water Mix**

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**

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March 11, 2025

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

**Re: Closure Report  
Diamondback 22 State Com 5H (11.29.24)  
Incident ID: NAPP2434539621  
Concho Operating, LLC  
Site Location: Unit A, S22, T26S, R28E  
(Lat 32.03431°, Long -104.07009°)  
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 Diamondback 22 State Com 5H (11.29.24). The site is located at 32.03431, -104.07009 within Unit A, S22, T26S, R28E, 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 November 29, 2024, due to equipment failure sending fluid to the flare causing a fire. The incident released approximately zero point three two (0.32) barrels of crude oil/produced water mix with zero (0) barrels of crude oil/produced water mix recovered. The impacted area occurred off the pad, as 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 high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.40 miles South of the site in S22, T26S, R28E and was drilled in 1998. The well has a reported depth to groundwater of 22.35' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

### **3.0 NMAC Regulatory Criteria**

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria was 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 December 16, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) sample points (S-1 & S-2) and five (5) horizontal sample points (H-1 through H-5) were installed to total depths ranging from surface to 1.5' bgs inside and surrounding the





release area to evaluate the vertical and horizontal extent. 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 D.

### **5.0 Remediation Activities**

Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on January 30, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the sampling notification. The areas of S-1 & S-2 were excavated to a depth of 2.5' to ensure the removal of all impacted material. A total of two (2) confirmation floor samples were collected (CS-1 and CS-2), and four (4) sidewall samples (SW-1 through SW-4) 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 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. 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. Prior to backfilling, a composite sample of the material was collected to ensure it was clean and non-waste containing material. Refer to Table 2 for the analytical results.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 70 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 this incident. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

**Carmona Resources, LLC**

Conner Moehring  
Environmental Manager

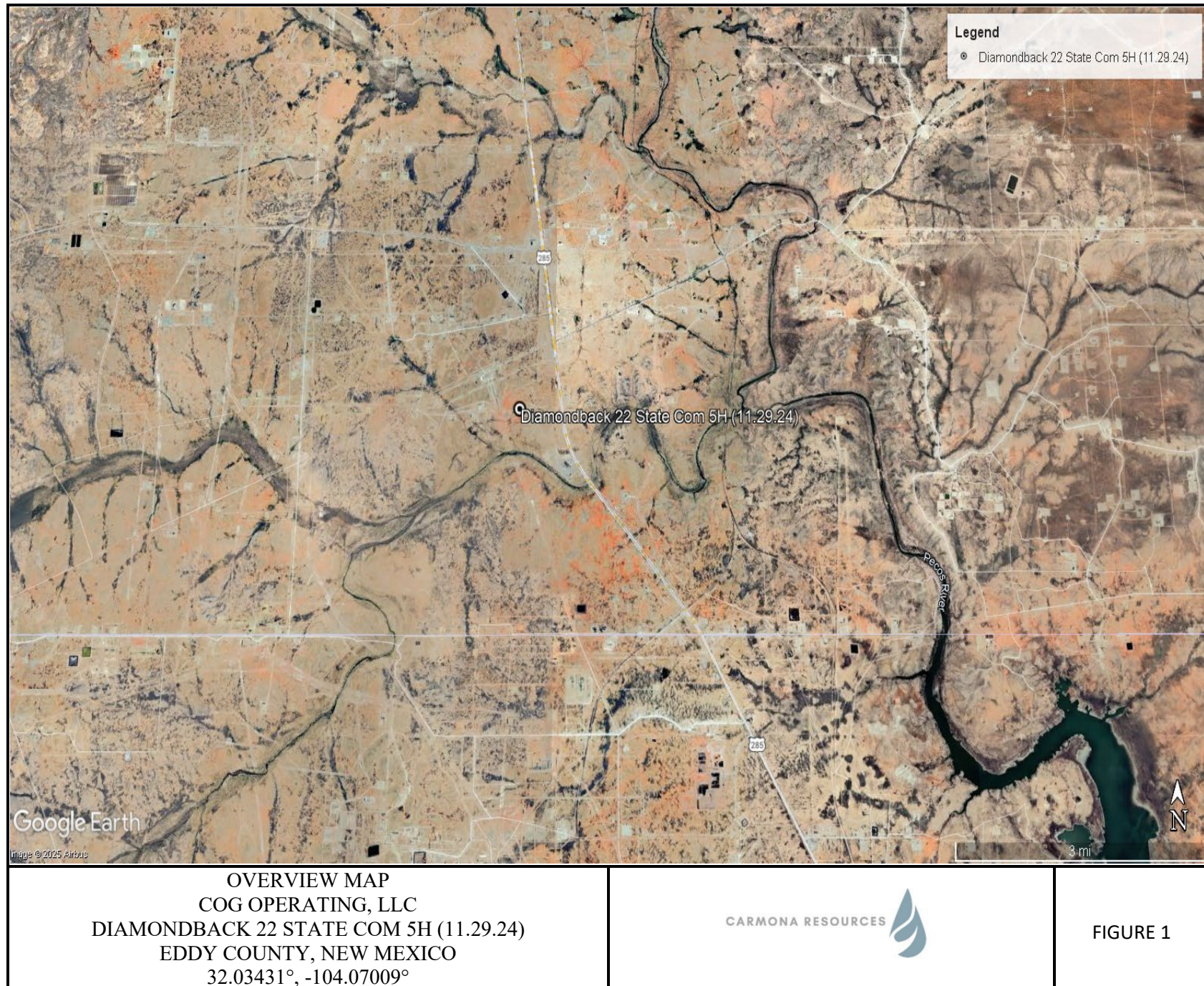
Stephen Reyes  
Sr. Project Manager

## FIGURES

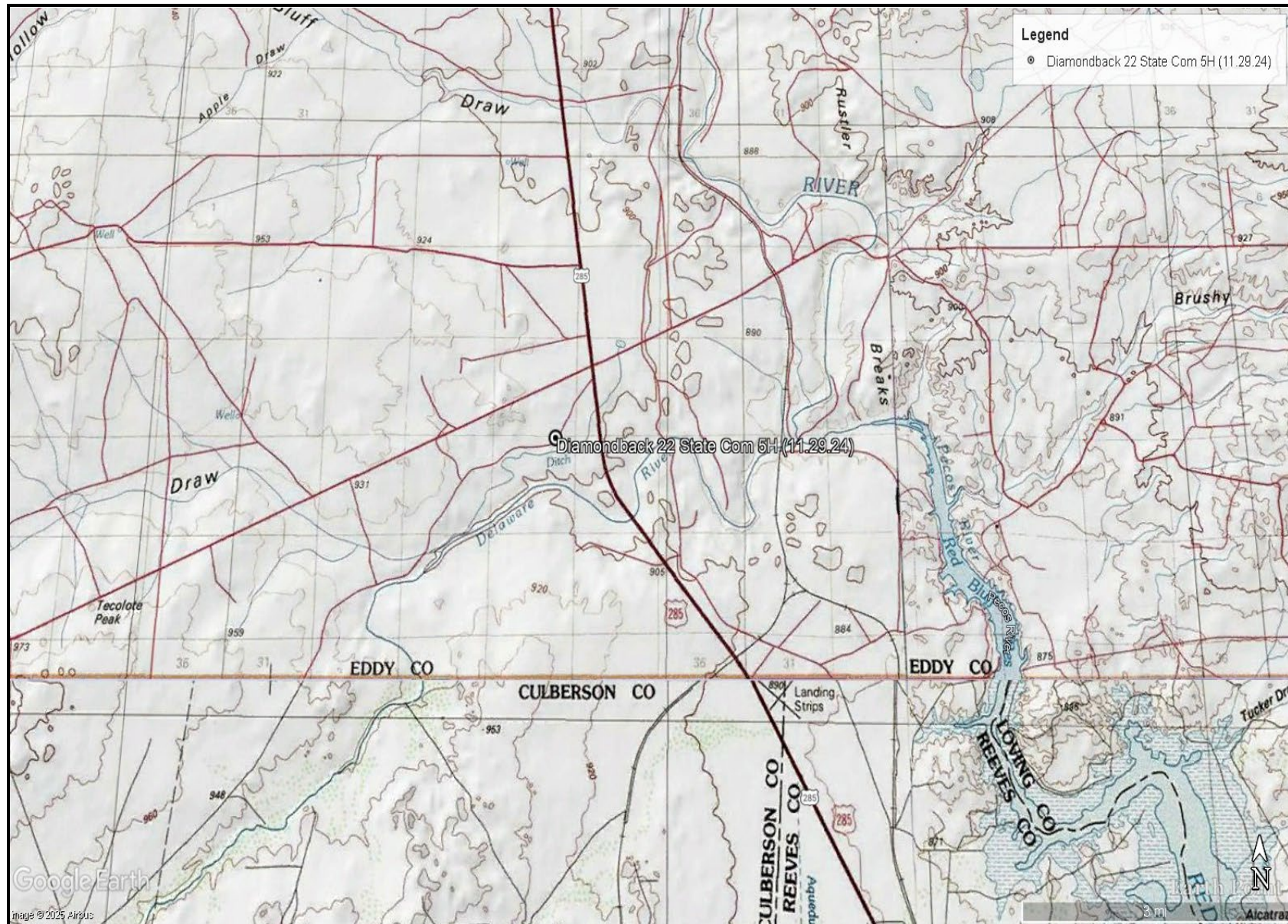
CARMONA RESOURCES



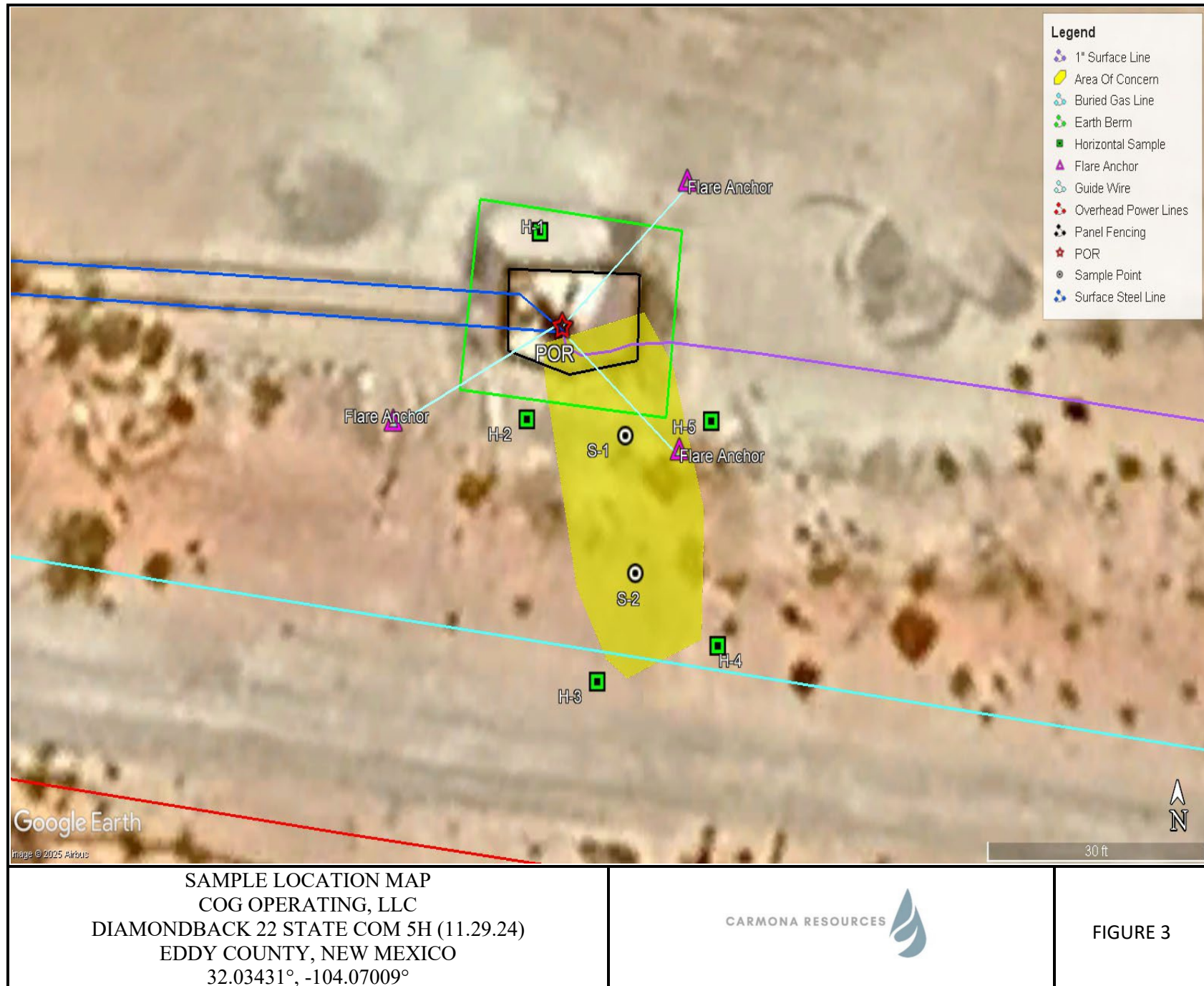


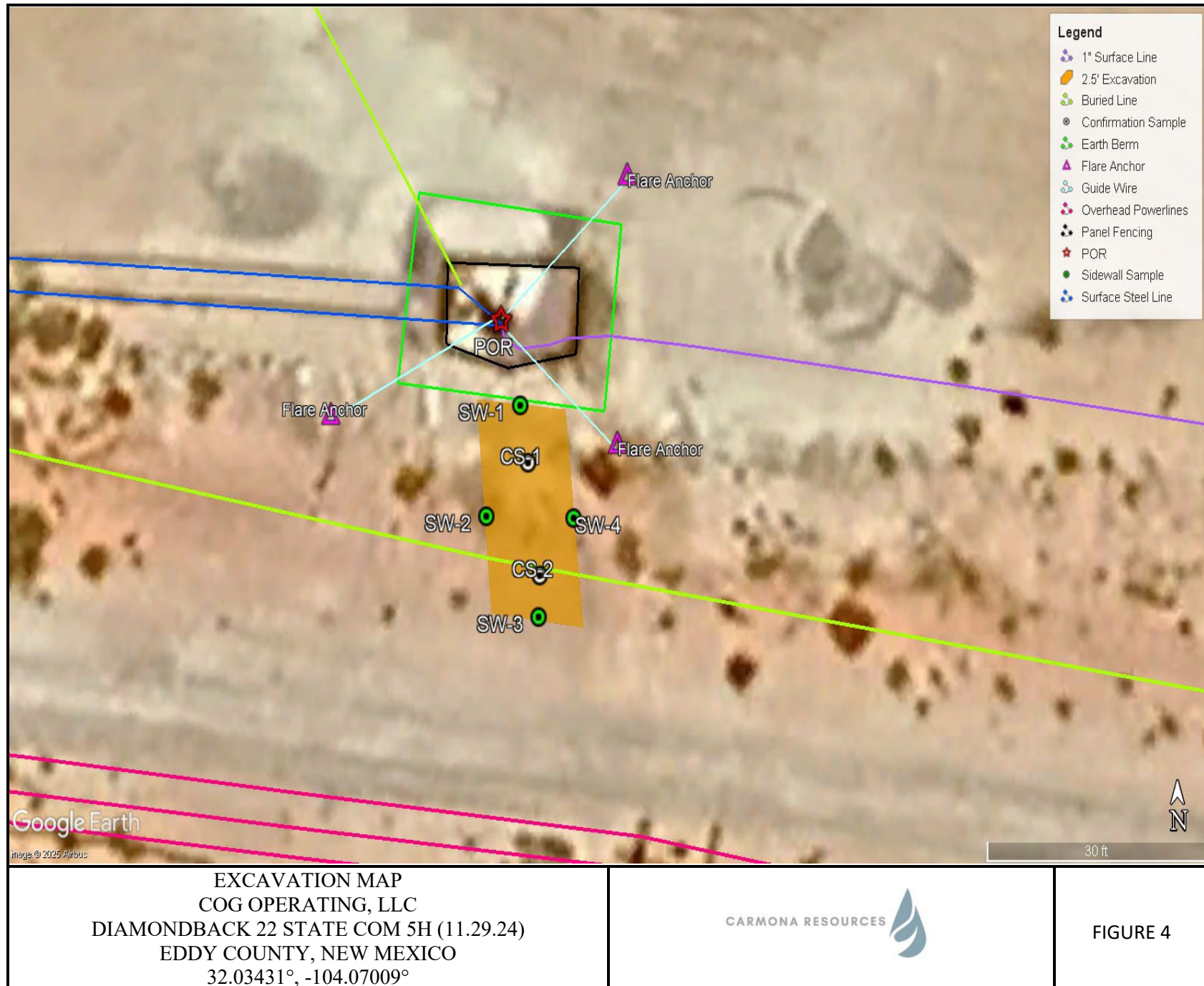












## APPENDIX A

CARMONA RESOURCES



**Table 1**  
**Conoco Phillips**  
**Diamondback 22 State Com 5H (11.29.24)**  
**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>	12/16/2024	0-0.5'	<b>751</b>	<b>10,300</b>	<503	<b>11,100</b>	0.0197	0.362	0.133	97.5	80.2	213
	"	1'	<50.0	<b>1,190</b>	<50.0	<b>1,190</b>	0.00511	0.0652	0.0156	0.174	0.260	234
<b>S-2</b>	12/16/2024	0-0.5'	<49.7	<b>279</b>	<49.7	<b>279</b>	<0.00201	<0.00201	<0.00201	0.0281	0.0281	<b>10,800</b>
	"	1'	<50.0	64.4	<50.0	64.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<b>3,870</b>
	"	1.5'	<49.8	<b>148</b>	<49.8	<b>148</b>	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>4,850</b>
<b>H-1</b>	12/16/2024	0-0.5'	<50.0	85.4	<50.0	85.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	37.8
<b>H-2</b>	12/16/2024	0-0.5'	<49.9	16.9	<49.9	16.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	28.6
<b>H-3</b>	12/16/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	63.0
<b>H-4</b>	12/16/2024	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	96.6
<b>H-5</b>	12/16/2024	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	250
<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) Horizontal Point

Removed



**Table 2**  
**Conoco Phillips**  
**Diamondback 22 State Com 5H (11.29.24)**  
**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						
<b>CS-1</b>	2/4/2025	2.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	328
<b>CS-2</b>	2/4/2025	2.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	200
<b>SW-1</b>	2/4/2025	2.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	340
<b>SW-2</b>	2/4/2025	2.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	345
<b>SW-3</b>	2/4/2025	2.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	134
<b>SW-4</b>	2/4/2025	2.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	114
<b>Backfill Sample</b>	2/4/2025	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	308
<i>Regulatory Criteria<sup>A</sup></i>							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

COG Operating, LLC

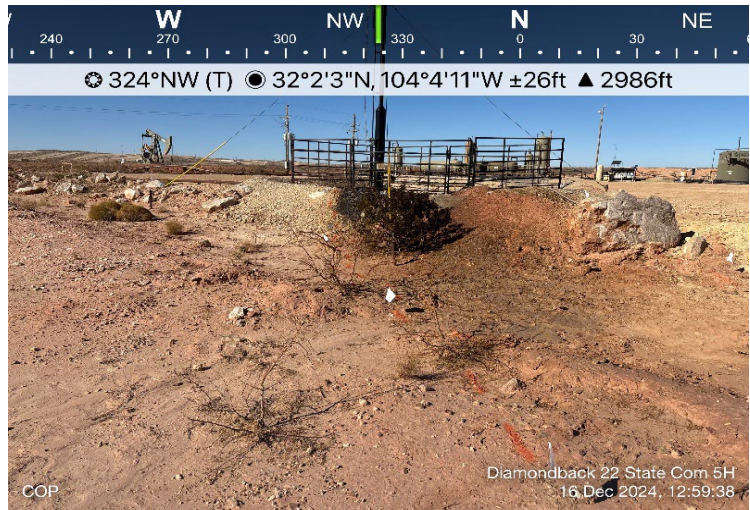
## Photograph No. 1

**Facility:** Diamondback 22 State Com 5H  
(11.29.24)

**County:** Eddy County, New Mexico

**Description:**

View Northwest, area of concern



## Photograph No. 2

**Facility:** Diamondback 22 State Com 5H  
(11.29.24)

**County:** Eddy County, New Mexico

**Description:**

View East, area of concern



## Photograph No. 3

**Facility:** Diamondback 22 State Com 5H  
(11.29.24)

**County:** Eddy County, New Mexico

**Description:**

View East, area of CS-1





# PHOTOGRAPHIC LOG

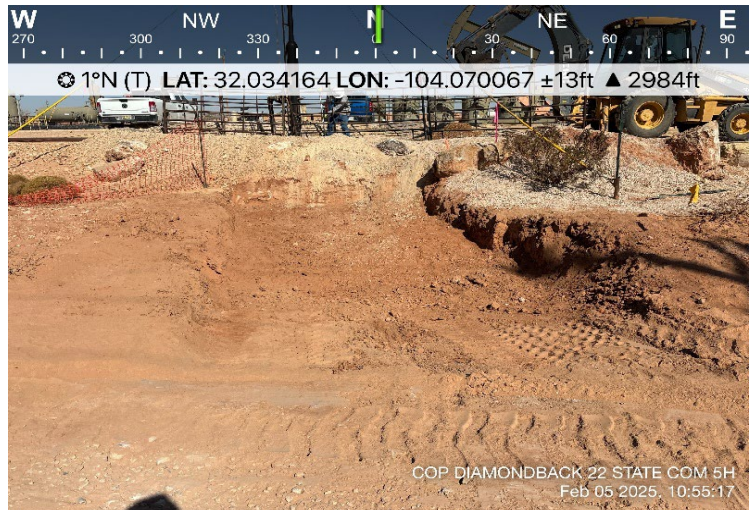
COG Operating, LLC

## Photograph No. 4

**Facility:** Diamondback 22 State Com 5H  
(11.29.24)

**County:** Eddy County, New Mexico

**Description:**  
View North, area of CS-2



## Photograph No. 5

**Facility:** Diamondback 22 State Com 5H  
(11.29.24)

**County:** Eddy County, New Mexico

**Description:**  
View East, backfilled excavation



## Photograph No. 6

**Facility:** Diamondback 22 State Com 5H  
(11.29.24)

**County:** Eddy County, New Mexico

**Description:**  
View North, backfilled excavation



## APPENDIX C

CARMONA RESOURCES



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 410345

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 410345
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Diamondback 22 St Corn 5H
Date Release Discovered	11/29/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Fire   Other (Specify)   Crude Oil   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 410345

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 410345
	Action Type: [NOTIFY] Notification Of Release (NOR)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	More volume information must be supplied to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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**Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 410345

**ACKNOWLEDGMENTS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 410345
	Action Type: [NOTIFY] Notification Of Release (NOR)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.



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CONDITIONS

Action 410345

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 410345
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jacquih	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	12/10/2024

Spill Calculation - Subsurface Spill - Rectangle												Remediation Recommendation	
<i>Received by OCD: 9/5/2025 8:26:34 AM</i>												Total Estimated Contaminated Soil, uncompacted, 25% (yd³.)	<i>Page 22 of 124</i>
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture (%)	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)			
Rectangle A	35.0	15.0	0.2	Off-Pad	13.69%	1.56	0.21		0.00	0.21	0.41	750	
Rectangle B				Off-Pad	13.69%	0.00	0.00		0.00	0.00	0.00		
Rectangle C				Off-Pad	13.69%	0.00	0.00		0.00	0.00	0.00		
Rectangle D				Off-Pad	13.69%	0.00	0.00		0.00	0.00	0.00		
Rectangle E				Off-Pad	13.69%	0.00	0.00		0.00	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 Released:							0.2132		0.0000	0.2132	0.41	BU	
<i>Released to Imaging: 10/7/2025 3:26:02 PM</i>													

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

QUESTIONS

Action 411403

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 411403
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2434539621
Incident Name	NAPP2434539621 DIAMONDBACK 22 ST COM 5H @ 0
Incident Type	Fire
Incident Status	Initial C-141 Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	Diamondback 22 St Com 5H
Date Release Discovered	11/29/2024
Surface Owner	State

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Fire   Other (Specify)   Crude Oil   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 411403

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 411403
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 12/12/2024
--	---

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 411403

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 411403
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

CONDITIONS

Action 411403

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 411403
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	12/12/2024

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Phone: (505) 476-3441

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

QUESTIONS

Action 426794

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 426794
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434539621
Incident Name	NAPP2434539621 DIAMONDBACK 22 ST COM 5H @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Diamondback 22 St Com 5H
Date Release Discovered	11/29/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	663
What is the estimated number of samples that will be gathered	9
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/04/2025
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Conner Moehring – 432-813-6823
Please provide any information necessary for navigation to sampling site	Coordinates on C-141

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

CONDITIONS

Action 426794

CONDITIONS

Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:  229137
	Action Number:  426794
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jacquih	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/30/2025



## APPENDIX D

CARMONA RESOURCES



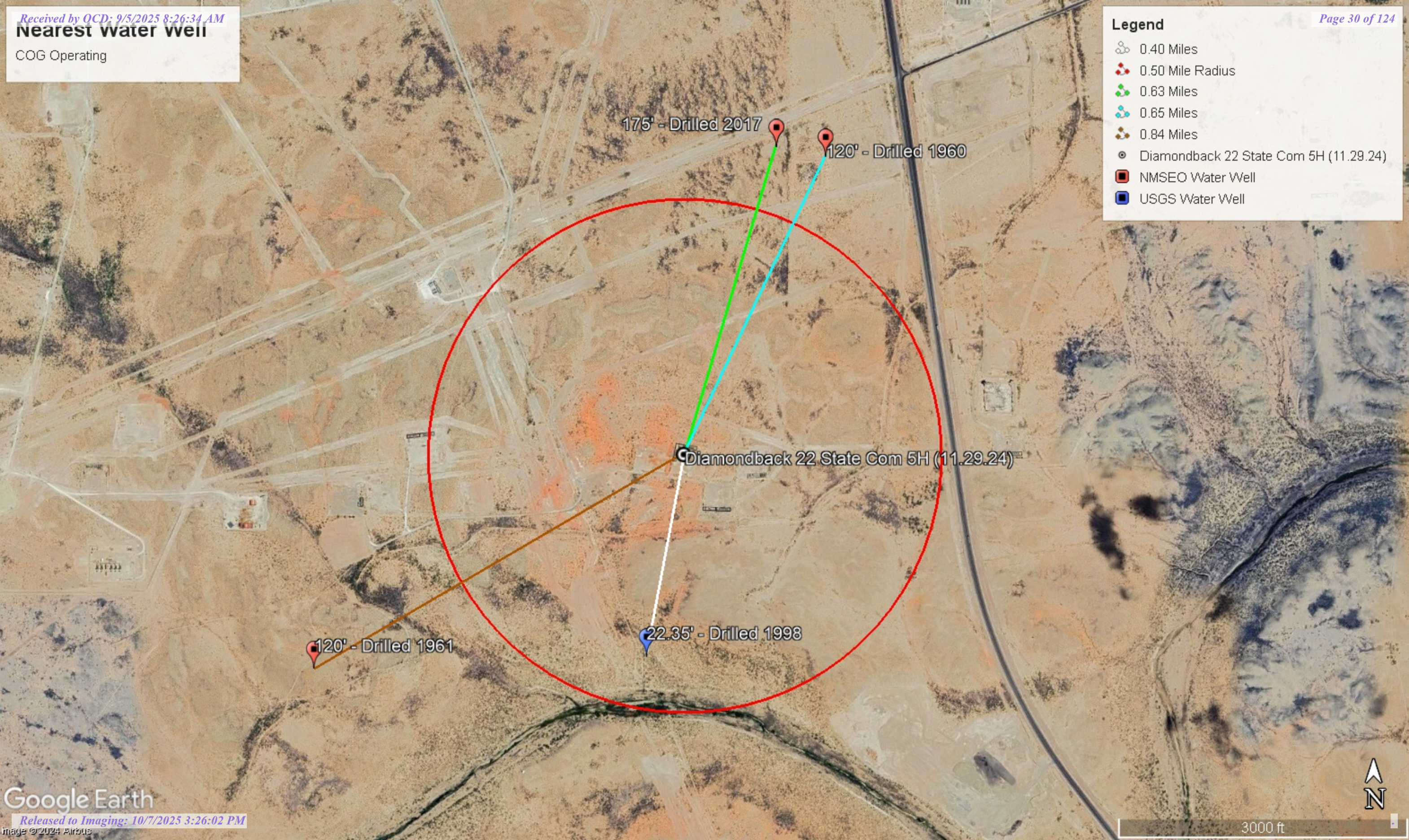


**Nearest water well**

COG Operating

**Legend**

- 0.40 Miles
- 0.50 Mile Radius
- 0.63 Miles
- 0.65 Miles
- 0.84 Miles
- Diamondback 22 State Com 5H (11.29.24)
- NMSEO Water Well
- USGS Water Well





# High Karst

COG Operating

## Legend

- Diamondback 22 State Com 5H (11.29.24)
- High
- Medium

Diamondback 22 State Com 5H (11.29.24)





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 smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
<a href="#">C 04022 POD1</a>		CUB	ED	SE	SE	NE	15	26S	28E	588081.6	3545647.1		1005	220	175	45
<a href="#">C 02160 S6</a>		CUB	ED	SW	SW	NW	14	26S	28E	588232.0	3545635.0 *		1046	300	120	180
<a href="#">C 02160 S7</a>		CUB	ED	SW	SW	NW	22	26S	28E	586638.0	3543998.0 *		1348	300	120	180
<a href="#">C 02481</a>		CUB	ED		NW	NW	14	26S	28E	588326.0	3546138.0 *		1548	200		
<a href="#">C 02160 S5</a>		CUB	ED	NW	NW	NW	14	26S	28E	588225.0	3546237.0 *		1612	300	120	180
<a href="#">C 04022 POD2</a>		CUB	ED	NE	NE	NE	27	26S	28E	588106.4	3543082.2		1628	250	145	105
<a href="#">C 02479</a>		CUB	ED		SE	SE	10	26S	28E	587909.0	3546534.0 *		1855	200		
<a href="#">C 02480</a>		CUB	ED		SE	SE	10	26S	28E	587909.0	3546534.0 *		1855	150		
<a href="#">C 02160 S3</a>		CUB	ED	NE	NE	NW	14	26S	28E	588834.0	3546241.0 *		1870	300	120	180
<a href="#">C 02160 S4</a>		CUB	ED	NE	NE	NW	14	26S	28E	588834.0	3546241.0 *		1870	300	120	180
<a href="#">C 02160</a>		CUB	ED	SE	NW	NE	14	26S	28E	589243.0	3546044.0 *		1983	300	120	180
<a href="#">C 02160 S</a>		CUB	ED	NW	NW	NE	14	26S	28E	589043.0	3546244.0 *		1996	300	120	180
<a href="#">C 02160 S2</a>		CUB	ED	NW	NW	NE	14	26S	28E	589043.0	3546244.0 *		1996	300	120	180
<a href="#">C 04863 POD1</a>		CUB	ED	NE	NW	NE	14	26S	28E	589239.2	3546295.5		2161	105		
<a href="#">C 01668</a>		CUB	ED		SW	SW	12	26S	28E	589957.0	3546554.0 *		2855	250	100	150
<a href="#">C 02160 S8</a>		CUB	ED	NE	SW	SW	12	26S	28E	590056.0	3546653.0 *		2995	200	120	80
<a href="#">C 02924</a>		C	ED	NW	SW	NE	11	26S	28E	589032.0	3547451.0 *		3030			
<a href="#">C 02894</a>		C	ED	NE	NE	SW	12	26S	28E	590458.0	3547061.0 *		3566	240		

Average Depth to Water: 125 feet

Minimum Depth: 100 feet

Maximum Depth: 175 feet

Record Count: 18

UTM Filters (in meters):

Easting: 587800.55

Northing: 3544681.84





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

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320145104041701

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

USGS 320145104041701 26S.28E.22.234431

Eddy County, New Mexico  
Latitude 32°01'45", Longitude 104°04'17" NAD27  
Land-surface elevation 2,980 feet above NGVD29  
The depth of the well is 23.00 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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 measured
1987-12-12		D	62610		2958.98	NGVD29	1	S		
1987-12-12		D	62611		2960.55	NAVD88	1	S		
1987-12-12		D	72019	21.02			1	S		
1998-01-22		D	62610		2957.65	NGVD29	1	S		
1998-01-22		D	62611		2959.22	NAVD88	1	S		
1998-01-22		D	72019	22.35			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

Section	Code	Description
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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



Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2022-12-12 18:38:31 EST  
0.27 0.24 nadww01



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
C	04022 POD1	4	4	2	15	26S	28E	588082	3545647
<hr/>									
<b>Driller License:</b> 1184		<b>Driller Company:</b>		WEST TEXAS WATER WELL SERVICE					
<b>Driller Name:</b> KEITH, RONNY									
<b>Drill Start Date:</b> 05/01/2017		<b>Drill Finish Date:</b>		05/05/2017		<b>Plug Date:</b>			
<b>Log File Date:</b> 06/05/2017		<b>PCW Rev Date:</b>				<b>Source:</b>		Shallow	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>		1 GPM	
<b>Casing Size:</b> 12.25		<b>Depth Well:</b>		220 feet		<b>Depth Water:</b>		175 feet	
<hr/>									
<b>Water Bearing Stratifications:</b>				<b>Top</b>	<b>Bottom</b>	<b>Description</b>			
				175	180	Sandstone/Gravel/Conglomerate			
<hr/>									
<b>Casing Perforations:</b>				<b>Top</b>	<b>Bottom</b>				
				160	220				
<hr/>									

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

12/12/22 4:35 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)						X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng		
C	02160 S6	3	3	1	14	26S	28E	588232	3545635*
<b>Driller License:</b>		<b>Driller Company:</b>							
<b>Driller Name:</b>		HEMLER							
<b>Drill Start Date:</b>		<b>Drill Finish Date:</b>				11/01/1960		<b>Plug Date:</b>	
<b>Log File Date:</b>		<b>PCW Rev Date:</b>						<b>Source:</b>	Shallow
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>						<b>Estimated Yield:</b>	
<b>Casing Size:</b>		<b>Depth Well:</b>				300 feet		<b>Depth Water:</b>	120 feet

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
C	02160 S7	3	3	1	22	26S	28E	586638	3543998*		

Driller License:		Driller Company:	
Driller Name:	HEMLER		
Drill Start Date:	Drill Finish Date:	01/01/1961	Plug Date:
Log File Date:	PCW Rcv Date:	Source:	Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size:	Depth Well:	300 feet	Depth Water: 120 feet

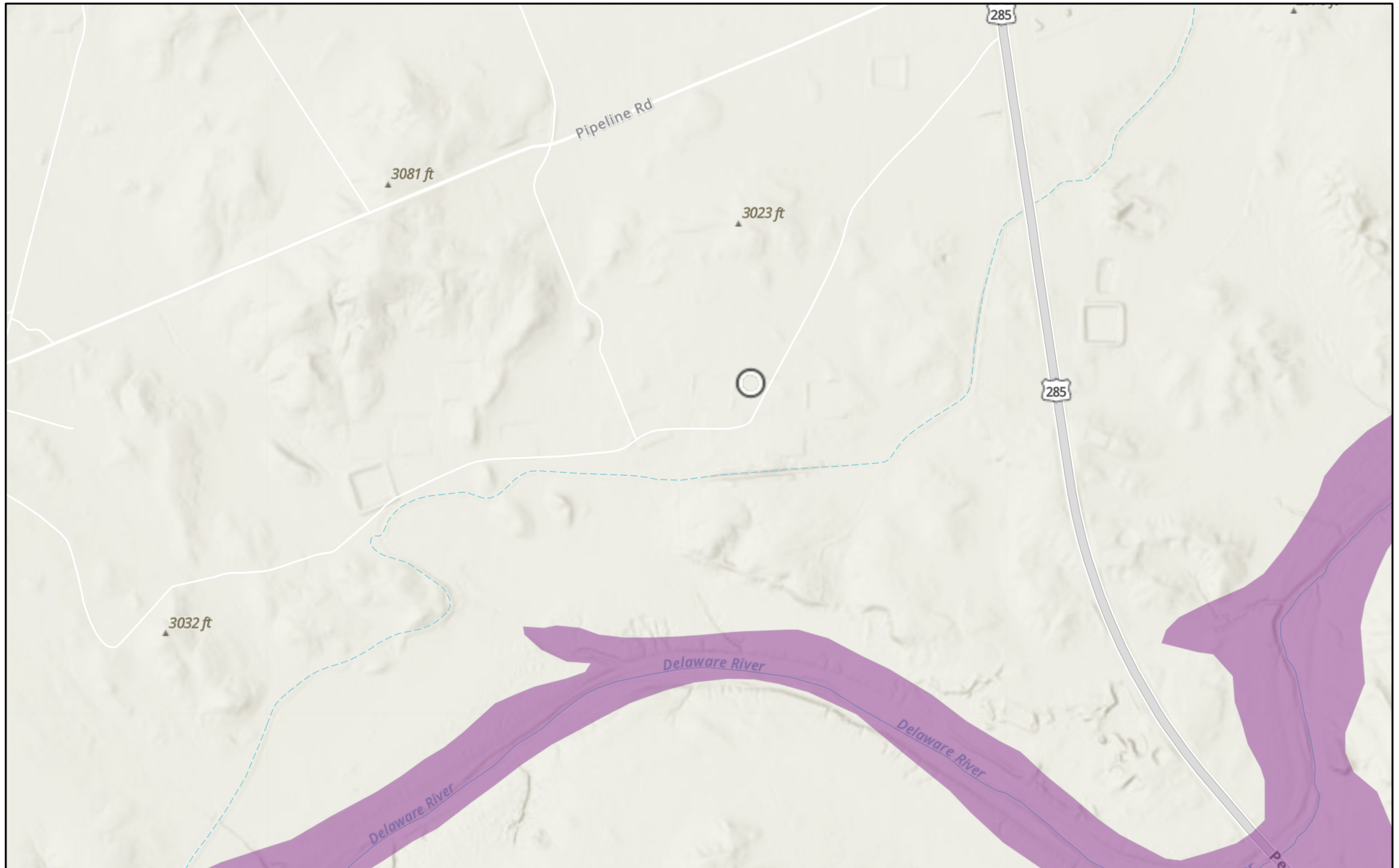
\*UTM location was derived from PLSS - see Help

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12/12/22 4:36 PM

POINT OF DIVERSION SUMMARY

## Diamondback 22 State Com 5H (11.29.24)

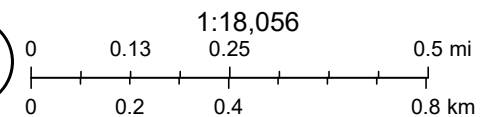


12/11/2024

USA Flood Hazard Areas

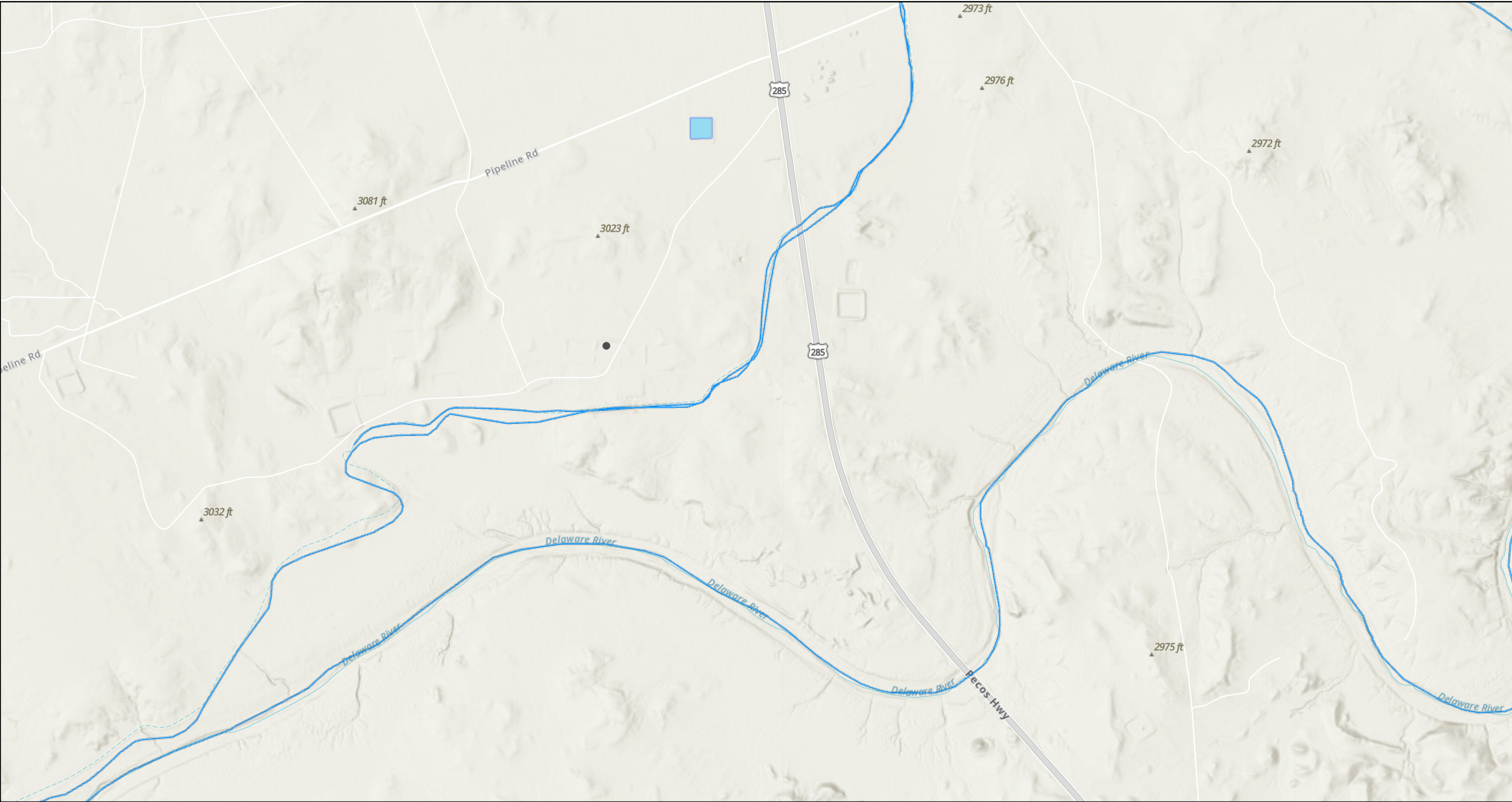
 1% Annual Chance Flood Hazard

World Hillshade



Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph,

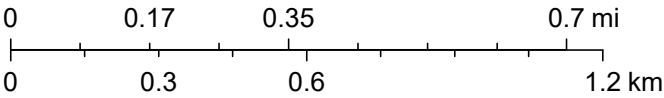
# Diamondback 22 State Com 5H (11.29.24)



12/11/2024, 7:50:26 AM

- OSW Water Bodys
- OSE Streams

1:18,056



Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, NM OSE

## APPENDIX E

CARMONA RESOURCES





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 12/23/2024 12:28:45 PM

## JOB DESCRIPTION

Diamondback 22 State Com 5H (11.29.24)  
2605

## JOB NUMBER

880-52444-1

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  
12/23/2024 12:28:45 PM

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: Diamondback 22 State Com 5H (11.29.24)

Laboratory Job ID: 880-52444-1  
SDG: 2605

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Definitions/Glossary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

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

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: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1

**Job ID: 880-52444-1**

**Eurofins Midland**

### Job Narrative 880-52444-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 12/18/2024 4:46 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.5°C.

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (0-0.5') (880-52444-1). Evidence of matrix interferences is not obvious.

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

#### Diesel Range Organics

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98234 and analytical batch 880-98267 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-98234/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The laboratory control sample (LCS) for preparation batch 880-98234 and analytical batch 880-98267 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. These analytes were biased high in the LCS and were within limits for the associated LCSD (laboratory control sample duplicate); therefore, the data have been reported.

Method 8015MOD\_NM: Due to the high concentration of Diesel Range Organics (Over C10-C28), the matrix spike (MS) for preparation batch 880-98403 and analytical batch 880-98427 could not be evaluated for accuracy. The associated matrix spike duplicate (MSD) met acceptance criteria.

Method 8015MOD\_NM: The laboratory control sample (LCS) for preparation batch 880-98403 and analytical batch 880-98427 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. Since only an acceptable LCSD is required per the method, the LCSD shows recovery for the batch and the data has been qualified and reported.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: S-1 (0-0.5') (880-52444-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-50704-A-39-A MB). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-98403/2-A) and (LCSD 880-98403/3-A). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

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Case Narrative

Client: Carmona Resources  
Project: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1

**Job ID: 880-52444-1 (Continued)** **Eurofins Midland**

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## Client Sample Results

Client: Carmona Resources

Job ID: 880-52444-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: 2605

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

Lab Sample ID: 880-52444-1

Date Collected: 12/16/24 00:00

Matrix: Solid

Date Received: 12/18/24 16:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0197		0.00200		mg/Kg		12/19/24 08:58	12/19/24 12:40	1
Toluene	0.362		0.00200		mg/Kg		12/19/24 08:58	12/19/24 12:40	1
Ethylbenzene	0.133		0.00200		mg/Kg		12/19/24 08:58	12/19/24 12:40	1
m-Xylene & p-Xylene	79.3		1.00		mg/Kg		12/19/24 10:54	12/19/24 14:49	250
o-Xylene	0.387		0.00200		mg/Kg		12/19/24 08:58	12/19/24 12:40	1
Xylenes, Total	97.5		1.00		mg/Kg		12/19/24 10:54	12/19/24 14:49	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	326	S1+	70 - 130	12/19/24 08:58	12/19/24 12:40	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/19/24 08:58	12/19/24 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	80.2		1.00		mg/Kg			12/19/24 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	11100		503		mg/Kg			12/20/24 15:45	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	751	+	503		mg/Kg		12/19/24 21:30	12/20/24 15:45	10
Diesel Range Organics (Over C10-C28)	10300		503		mg/Kg		12/19/24 21:30	12/20/24 15:45	10
Oil Range Organics (Over C28-C36)	<503	U	503		mg/Kg		12/19/24 21:30	12/20/24 15:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	190	S1+	70 - 130	12/19/24 21:30	12/20/24 15:45	10
o-Terphenyl	363	S1+	70 - 130	12/19/24 21:30	12/20/24 15:45	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		10.1		mg/Kg			12/19/24 12:59	1

Client Sample ID: S-1 (1')

Lab Sample ID: 880-52444-2

Date Collected: 12/16/24 00:00

Matrix: Solid

Date Received: 12/18/24 16:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00511		0.00202		mg/Kg		12/19/24 08:58	12/19/24 13:01	1
Toluene	0.0652		0.00202		mg/Kg		12/19/24 08:58	12/19/24 13:01	1
Ethylbenzene	0.0156		0.00202		mg/Kg		12/19/24 08:58	12/19/24 13:01	1
m-Xylene & p-Xylene	0.109		0.00404		mg/Kg		12/19/24 08:58	12/19/24 13:01	1
o-Xylene	0.0647		0.00202		mg/Kg		12/19/24 08:58	12/19/24 13:01	1
Xylenes, Total	0.174		0.00404		mg/Kg		12/19/24 08:58	12/19/24 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/19/24 08:58	12/19/24 13:01	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/19/24 08:58	12/19/24 13:01	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

Client Sample ID: S-1 (1')

Lab Sample ID: 880-52444-2

Date Collected: 12/16/24 00:00

Matrix: Solid

Date Received: 12/18/24 16:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.260		0.00404		mg/Kg			12/19/24 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1190		50.0		mg/Kg			12/19/24 19:31	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		12/19/24 08:23	12/19/24 19:31	1
Diesel Range Organics (Over C10-C28)	1190	F1	50.0		mg/Kg		12/19/24 08:23	12/19/24 19:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/24 08:23	12/19/24 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				12/19/24 08:23	12/19/24 19:31	1
o-Terphenyl	98		70 - 130				12/19/24 08:23	12/19/24 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	234		10.1		mg/Kg			12/19/24 13:17	1

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

Lab Sample ID: 880-52444-3

Date Collected: 12/16/24 00:00

Matrix: Solid

Date Received: 12/18/24 16:46

## 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		12/19/24 08:58	12/19/24 13:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/19/24 08:58	12/19/24 13:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/19/24 08:58	12/19/24 13:21	1
m-Xylene & p-Xylene	0.00801		0.00402		mg/Kg		12/19/24 08:58	12/19/24 13:21	1
o-Xylene	0.0201		0.00201		mg/Kg		12/19/24 08:58	12/19/24 13:21	1
Xylenes, Total	0.0281		0.00402		mg/Kg		12/19/24 08:58	12/19/24 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				12/19/24 08:58	12/19/24 13:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/19/24 08:58	12/19/24 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0281		0.00402		mg/Kg			12/19/24 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	279		49.7		mg/Kg			12/19/24 20:31	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	<49.7	U **	49.7		mg/Kg		12/19/24 08:23	12/19/24 20:31	1
Diesel Range Organics (Over C10-C28)	279		49.7		mg/Kg		12/19/24 08:23	12/19/24 20:31	1

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## Client Sample Results

Client: Carmona Resources

Job ID: 880-52444-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: 2605

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

Lab Sample ID: 880-52444-3

Date Collected: 12/16/24 00:00

Matrix: Solid

Date Received: 12/18/24 16:46

## 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)	<49.7	U	49.7		mg/Kg		12/19/24 08:23	12/19/24 20:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				12/19/24 08:23	12/19/24 20:31	1
o-Terphenyl	77		70 - 130				12/19/24 08:23	12/19/24 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10800		198		mg/Kg			12/19/24 13:23	20

Client Sample ID: S-2 (1')

Lab Sample ID: 880-52444-4

Date Collected: 12/16/24 00:00

Matrix: Solid

Date Received: 12/18/24 16:46

## 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		12/19/24 08:58	12/19/24 13:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 13:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 13:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/19/24 08:58	12/19/24 13:42	1
o-Xylene	0.00320		0.00200		mg/Kg		12/19/24 08:58	12/19/24 13:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/19/24 08:58	12/19/24 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/19/24 08:58	12/19/24 13:42	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/19/24 08:58	12/19/24 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/19/24 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.4		50.0		mg/Kg			12/19/24 20:46	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		12/19/24 08:23	12/19/24 20:46	1
Diesel Range Organics (Over C10-C28)	64.4		50.0		mg/Kg		12/19/24 08:23	12/19/24 20:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/24 08:23	12/19/24 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				12/19/24 08:23	12/19/24 20:46	1
o-Terphenyl	76		70 - 130				12/19/24 08:23	12/19/24 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3870		201		mg/Kg			12/19/24 13:41	20

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Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

Client Sample ID: S-2 (1.5')  
Date Collected: 12/16/24 00:00  
Date Received: 12/18/24 16:46

Lab Sample ID: 880-52444-5  
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/19/24 08:58	12/19/24 14:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/19/24 08:58	12/19/24 14:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/19/24 08:58	12/19/24 14:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/19/24 08:58	12/19/24 14:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/19/24 08:58	12/19/24 14:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/19/24 08:58	12/19/24 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/19/24 08:58	12/19/24 14:02	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/19/24 08:58	12/19/24 14:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/19/24 14:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	148		49.8		mg/Kg			12/19/24 21:01	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		12/19/24 08:23	12/19/24 21:01	1
Diesel Range Organics (Over C10-C28)	148		49.8		mg/Kg		12/19/24 08:23	12/19/24 21:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/19/24 08:23	12/19/24 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				12/19/24 08:23	12/19/24 21:01	1
o-Terphenyl	77		70 - 130				12/19/24 08:23	12/19/24 21:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4850		200		mg/Kg			12/19/24 13:47	20



## Surrogate Summary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

## 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)
880-52381-A-11-D MS	Matrix Spike	107	104
880-52381-A-11-E MSD	Matrix Spike Duplicate	108	103
880-52381-A-17-F MS	Matrix Spike	105	97
880-52381-A-17-G MSD	Matrix Spike Duplicate	106	97
880-52444-1	S-1 (0-0.5')	326 S1+	105
880-52444-2	S-1 (1')	117	87
880-52444-3	S-2 (0-0.5')	106	99
880-52444-4	S-2 (1')	111	106
880-52444-5	S-2 (1.5')	112	107
LCS 880-98239/1-A	Lab Control Sample	106	104
LCS 880-98241/1-A	Lab Control Sample	108	98
LCSD 880-98239/2-A	Lab Control Sample Dup	105	103
LCSD 880-98241/2-A	Lab Control Sample Dup	103	96
MB 880-98239/5-A	Method Blank	113	104
MB 880-98241/5-A	Method Blank	118	89
<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)
880-50704-A-39-A MB	Method Blank	79	66 S1-
880-52444-1	S-1 (0-0.5')	190 S1+	363 S1+
880-52444-2	S-1 (1')	79	98
880-52444-2 MS	S-1 (1')	83	97
880-52444-2 MSD	S-1 (1')	83	97
880-52444-3	S-2 (0-0.5')	70	77
880-52444-4	S-2 (1')	77	76
880-52444-5	S-2 (1.5')	73	77
890-7492-A-13-C MS	Matrix Spike	80	81
890-7492-A-13-D MSD	Matrix Spike Duplicate	79	81
LCS 880-98234/2-A	Lab Control Sample	136 S1+	115
LCS 880-98403/2-A	Lab Control Sample	136 S1+	123
LCSD 880-98234/3-A	Lab Control Sample Dup	124	108
LCSD 880-98403/3-A	Lab Control Sample Dup	133 S1+	120
MB 880-98234/1-A	Method Blank	78	77
MB 880-98403/1-A	Method Blank	91	74
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: Carmona Resources

Job ID: 880-52444-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: 2605

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

Lab Sample ID: MB 880-98239/5-A

Matrix: Solid

Analysis Batch: 98233

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/19/24 08:58	12/19/24 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/19/24 08:58	12/19/24 11:17	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/19/24 08:58	12/19/24 11:17	1

Lab Sample ID: LCS 880-98239/1-A

Matrix: Solid

Analysis Batch: 98233

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1094		mg/Kg		109	70 - 130
Toluene	0.100	0.1057		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1039		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2123		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1084		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-98239/2-A

Matrix: Solid

Analysis Batch: 98233

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98239

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1143		mg/Kg		114	70 - 130	4	35
Toluene	0.100	0.1106		mg/Kg		111	70 - 130	4	35
Ethylbenzene	0.100	0.1087		mg/Kg		109	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2219		mg/Kg		111	70 - 130	4	35
o-Xylene	0.100	0.1132		mg/Kg		113	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-52381-A-11-D MS

Matrix: Solid

Analysis Batch: 98233

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98239

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1155		mg/Kg		116	70 - 130
Toluene	0.00671		0.0996	0.1119		mg/Kg		106	70 - 130

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## QC Sample Results

Client: Carmona Resources

Job ID: 880-52444-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: 2605

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

Lab Sample ID: 880-52381-A-11-D MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 98233

Prep Batch: 98239

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00451		0.0996	0.1113		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.0598		0.199	0.2265		mg/Kg		84	70 - 130
o-Xylene	0.0196		0.0996	0.1151		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-52381-A-11-E MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 98233

Prep Batch: 98239

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-98241/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 98231

Prep Batch: 98241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:14	12/19/24 11:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:14	12/19/24 11:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:14	12/19/24 11:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/19/24 09:14	12/19/24 11:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:14	12/19/24 11:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/19/24 09:14	12/19/24 11:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/19/24 09:14	12/19/24 11:07	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/19/24 09:14	12/19/24 11:07	1

Lab Sample ID: LCS 880-98241/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 98231

Prep Batch: 98241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1132		mg/Kg		113	70 - 130
Toluene	0.100	0.1120		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1135		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2289		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1189		mg/Kg		119	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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## QC Sample Results

Client: Carmona Resources

Job ID: 880-52444-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: 2605

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

Lab Sample ID: LCSD 880-98241/2-A

Matrix: Solid

Analysis Batch: 98231

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98241

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benzene	0.100	0.1161		mg/Kg		116	70 - 130	2		35
Toluene	0.100	0.1130		mg/Kg		113	70 - 130	1		35
Ethylbenzene	0.100	0.1157		mg/Kg		116	70 - 130	2		35
m-Xylene & p-Xylene	0.200	0.2303		mg/Kg		115	70 - 130	1		35
o-Xylene	0.100	0.1182		mg/Kg		118	70 - 130	1		35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-52381-A-17-F MS

Matrix: Solid

Analysis Batch: 98231

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00199	U	0.0996	0.1176		mg/Kg		118	70 - 130	
Toluene	0.00568		0.0996	0.1153		mg/Kg		110	70 - 130	
Ethylbenzene	0.00300		0.0996	0.1184		mg/Kg		116	70 - 130	
m-Xylene & p-Xylene	0.0367		0.199	0.2369		mg/Kg		101	70 - 130	
o-Xylene	0.00970		0.0996	0.1208		mg/Kg		112	70 - 130	

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-52381-A-17-G MSD

Matrix: Solid

Analysis Batch: 98231

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.00199	U	0.101	0.1189		mg/Kg		118	70 - 130	1		35
Toluene	0.00568		0.101	0.1152		mg/Kg		109	70 - 130	0		35
Ethylbenzene	0.00300		0.101	0.1182		mg/Kg		114	70 - 130	0		35
m-Xylene & p-Xylene	0.0367		0.202	0.2371		mg/Kg		99	70 - 130	0		35
o-Xylene	0.00970		0.101	0.1212		mg/Kg		111	70 - 130	0		35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

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

Lab Sample ID: MB 880-98234/1-A  
Matrix: Solid  
Analysis Batch: 98267

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 98234

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		12/19/24 08:23	12/19/24 18:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/19/24 08:23	12/19/24 18:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/24 08:23	12/19/24 18:45	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				12/19/24 08:23	12/19/24 18:45	1
o-Terphenyl	77		70 - 130				12/19/24 08:23	12/19/24 18:45	1

Lab Sample ID: LCS 880-98234/2-A  
Matrix: Solid  
Analysis Batch: 98267

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 98234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1318	*+	mg/Kg		132	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1167		mg/Kg		117	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	136	S1+	70 - 130				
o-Terphenyl	115		70 - 130				

Lab Sample ID: LCSD 880-98234/3-A  
Matrix: Solid  
Analysis Batch: 98267

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 98234

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1173		mg/Kg		117	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130	14	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	124		70 - 130						
o-Terphenyl	108		70 - 130						

Lab Sample ID: 880-52444-2 MS  
Matrix: Solid  
Analysis Batch: 98267

Client Sample ID: S-1 (1')  
Prep Type: Total/NA  
Prep Batch: 98234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	995	775.2		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	1190	F1	995	1825	F1	mg/Kg		64	70 - 130



## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

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

Lab Sample ID: 880-52444-2 MS

Matrix: Solid

Analysis Batch: 98267

Client Sample ID: S-1 (1')

Prep Type: Total/NA

Prep Batch: 98234

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-52444-2 MSD

Matrix: Solid

Analysis Batch: 98267

Client Sample ID: S-1 (1')

Prep Type: Total/NA

Prep Batch: 98234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	995	754.3		mg/Kg		73	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1190	F1	995	1803	F1	mg/Kg		62	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-50704-A-39-A MB

Matrix: Solid

Analysis Batch: 98427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98403

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		12/19/24 21:30	12/20/24 14:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/19/24 21:30	12/20/24 14:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/24 21:30	12/20/24 14:55	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				12/19/24 21:30	12/20/24 14:55	1
o-Terphenyl	66	S1-	70 - 130				12/19/24 21:30	12/20/24 14:55	1

Lab Sample ID: MB 880-98403/1-A

Matrix: Solid

Analysis Batch: 98427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98403

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		12/19/24 21:30	12/20/24 09:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/19/24 21:30	12/20/24 09:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/24 21:30	12/20/24 09:12	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/19/24 21:30	12/20/24 09:12	1
o-Terphenyl	74		70 - 130				12/19/24 21:30	12/20/24 09:12	1

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QC Sample Results

Client: Carmona Resources

Job ID: 880-52444-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: 2605

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

Lab Sample ID: LCS 880-98403/2-A

Matrix: Solid

Analysis Batch: 98427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1333	*+	mg/Kg		133	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1178		mg/Kg		118	70 - 130
Surrogate		LCS %Recovery	LCS Qualifier	Limits			
1-Chlorooctane		136	S1+	70 - 130			
o-Terphenyl		123		70 - 130			

Lab Sample ID: LCSD 880-98403/3-A

Matrix: Solid

Analysis Batch: 98427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98403

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1180		mg/Kg		118	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	1166		mg/Kg		117	70 - 130	1	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		133	S1+	70 - 130					
o-Terphenyl		120		70 - 130					

Lab Sample ID: 890-7492-A-13-C MS

Matrix: Solid

Analysis Batch: 98427

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98403

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 *+	997	729.6		mg/Kg		73	70 - 130
Diesel Range Organics (Over C10-C28)	538	F1	997	1207	F1	mg/Kg		67	70 - 130
Surrogate		MS %Recovery	MS Qualifier	Limits					
1-Chlorooctane		80		70 - 130					
o-Terphenyl		81		70 - 130					

Lab Sample ID: 890-7492-A-13-D MSD

Matrix: Solid

Analysis Batch: 98427

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98403

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 *+	997	855.4		mg/Kg		86	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	538	F1	997	1282		mg/Kg		75	70 - 130	6	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1-Chlorooctane		79		70 - 130							

## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

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

Lab Sample ID: 890-7492-A-13-D MSD

Matrix: Solid

Analysis Batch: 98427

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98403

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	81		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98252/1-A

Matrix: Solid

Analysis Batch: 98273

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<10.0	U	10.0		mg/Kg			12/19/24 11:19		1

Lab Sample ID: LCS 880-98252/2-A

Matrix: Solid

Analysis Batch: 98273

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec		
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride		250	244.4		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-98252/3-A

Matrix: Solid

Analysis Batch: 98273

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	244.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-52444-1 MS

Matrix: Solid

Analysis Batch: 98273

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

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS			%Rec		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	213		253	470.0		mg/Kg		102	90 - 110	

Lab Sample ID: 880-52444-1 MSD

Matrix: Solid

Analysis Batch: 98273

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

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Chloride	213		253	470.8		mg/Kg		102	90 - 110	0

## QC Association Summary

Client: Carmona Resources

Job ID: 880-52444-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: 2605

## GC VOA

## Analysis Batch: 98231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-1	S-1 (0-0.5')	Total/NA	Solid	8021B	98241
MB 880-98241/5-A	Method Blank	Total/NA	Solid	8021B	98241
LCS 880-98241/1-A	Lab Control Sample	Total/NA	Solid	8021B	98241
LCSD 880-98241/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98241
880-52381-A-17-F MS	Matrix Spike	Total/NA	Solid	8021B	98241
880-52381-A-17-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98241

## Analysis Batch: 98233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-1	S-1 (0-0.5')	Total/NA	Solid	8021B	98239
880-52444-2	S-1 (1')	Total/NA	Solid	8021B	98239
880-52444-3	S-2 (0-0.5')	Total/NA	Solid	8021B	98239
880-52444-4	S-2 (1')	Total/NA	Solid	8021B	98239
880-52444-5	S-2 (1.5')	Total/NA	Solid	8021B	98239
MB 880-98239/5-A	Method Blank	Total/NA	Solid	8021B	98239
LCS 880-98239/1-A	Lab Control Sample	Total/NA	Solid	8021B	98239
LCSD 880-98239/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98239
880-52381-A-11-D MS	Matrix Spike	Total/NA	Solid	8021B	98239
880-52381-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98239

## Prep Batch: 98239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-1	S-1 (0-0.5')	Total/NA	Solid	5035	
880-52444-2	S-1 (1')	Total/NA	Solid	5035	
880-52444-3	S-2 (0-0.5')	Total/NA	Solid	5035	
880-52444-4	S-2 (1')	Total/NA	Solid	5035	
880-52444-5	S-2 (1.5')	Total/NA	Solid	5035	
MB 880-98239/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98239/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98239/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52381-A-11-D MS	Matrix Spike	Total/NA	Solid	5035	
880-52381-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Prep Batch: 98241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-1	S-1 (0-0.5')	Total/NA	Solid	5035	
MB 880-98241/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98241/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98241/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52381-A-17-F MS	Matrix Spike	Total/NA	Solid	5035	
880-52381-A-17-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 98338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-52444-2	S-1 (1')	Total/NA	Solid	Total BTEX	
880-52444-3	S-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-52444-4	S-2 (1')	Total/NA	Solid	Total BTEX	
880-52444-5	S-2 (1.5')	Total/NA	Solid	Total BTEX	

Eurofins Midland



## QC Association Summary

Client: Carmona Resources

Job ID: 880-52444-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: 2605

## GC Semi VOA

## Prep Batch: 98234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-2	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-52444-3	S-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-52444-4	S-2 (1')	Total/NA	Solid	8015NM Prep	
880-52444-5	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-98234/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98234/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98234/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52444-2 MS	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-52444-2 MSD	S-1 (1')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 98267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-2	S-1 (1')	Total/NA	Solid	8015B NM	98234
880-52444-3	S-2 (0-0.5')	Total/NA	Solid	8015B NM	98234
880-52444-4	S-2 (1')	Total/NA	Solid	8015B NM	98234
880-52444-5	S-2 (1.5')	Total/NA	Solid	8015B NM	98234
MB 880-98234/1-A	Method Blank	Total/NA	Solid	8015B NM	98234
LCS 880-98234/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98234
LCSD 880-98234/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98234
880-52444-2 MS	S-1 (1')	Total/NA	Solid	8015B NM	98234
880-52444-2 MSD	S-1 (1')	Total/NA	Solid	8015B NM	98234

## Prep Batch: 98403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-1	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-50704-A-39-A MB	Method Blank	Total/NA	Solid	8015NM Prep	
MB 880-98403/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98403/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98403/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7492-A-13-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7492-A-13-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 98427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	98403
880-50704-A-39-A MB	Method Blank	Total/NA	Solid	8015B NM	98403
MB 880-98403/1-A	Method Blank	Total/NA	Solid	8015B NM	98403
LCS 880-98403/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98403
LCSD 880-98403/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98403
890-7492-A-13-C MS	Matrix Spike	Total/NA	Solid	8015B NM	98403
890-7492-A-13-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98403

## Analysis Batch: 98475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-52444-2	S-1 (1')	Total/NA	Solid	8015 NM	
880-52444-3	S-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-52444-4	S-2 (1')	Total/NA	Solid	8015 NM	
880-52444-5	S-2 (1.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

HPLC/IC

Leach Batch: 98252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-52444-2	S-1 (1')	Soluble	Solid	DI Leach	
880-52444-3	S-2 (0-0.5')	Soluble	Solid	DI Leach	
880-52444-4	S-2 (1')	Soluble	Solid	DI Leach	
880-52444-5	S-2 (1.5')	Soluble	Solid	DI Leach	
MB 880-98252/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98252/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98252/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52444-1 MS	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-52444-1 MSD	S-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 98273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52444-1	S-1 (0-0.5')	Soluble	Solid	300.0	98252
880-52444-2	S-1 (1')	Soluble	Solid	300.0	98252
880-52444-3	S-2 (0-0.5')	Soluble	Solid	300.0	98252
880-52444-4	S-2 (1')	Soluble	Solid	300.0	98252
880-52444-5	S-2 (1.5')	Soluble	Solid	300.0	98252
MB 880-98252/1-A	Method Blank	Soluble	Solid	300.0	98252
LCS 880-98252/2-A	Lab Control Sample	Soluble	Solid	300.0	98252
LCSD 880-98252/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98252
880-52444-1 MS	S-1 (0-0.5')	Soluble	Solid	300.0	98252
880-52444-1 MSD	S-1 (0-0.5')	Soluble	Solid	300.0	98252

Lab Chronicle

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

Client Sample ID: S-1 (0-0.5')  
Date Collected: 12/16/24 00:00  
Date Received: 12/18/24 16:46

Lab Sample ID: 880-52444-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 12:40	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	98241	12/19/24 10:54	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	98231	12/19/24 14:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98338	12/19/24 14:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			98475	12/20/24 15:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	98403	12/19/24 21:30	EL	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	98427	12/20/24 15:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98252	12/19/24 09:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98273	12/19/24 12:59	CH	EET MID

Client Sample ID: S-1 (1')  
Date Collected: 12/16/24 00:00  
Date Received: 12/18/24 16:46

Lab Sample ID: 880-52444-2  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 13:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98338	12/19/24 13:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			98475	12/19/24 19:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98234	12/19/24 08:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98267	12/19/24 19:31	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98252	12/19/24 09:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98273	12/19/24 13:17	CH	EET MID

Client Sample ID: S-2 (0-0.5')  
Date Collected: 12/16/24 00:00  
Date Received: 12/18/24 16:46

Lab Sample ID: 880-52444-3  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 13:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98338	12/19/24 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			98475	12/19/24 20:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98234	12/19/24 08:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98267	12/19/24 20:31	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98252	12/19/24 09:45	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	98273	12/19/24 13:23	CH	EET MID

Lab Chronicle

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

Client Sample ID: S-2 (1')  
Date Collected: 12/16/24 00:00  
Date Received: 12/18/24 16:46

Lab Sample ID: 880-52444-4  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 13:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98338	12/19/24 13:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			98475	12/19/24 20:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98234	12/19/24 08:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98267	12/19/24 20:46	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	98252	12/19/24 09:45	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	98273	12/19/24 13:41	CH	EET MID

Client Sample ID: S-2 (1.5')  
Date Collected: 12/16/24 00:00  
Date Received: 12/18/24 16:46

Lab Sample ID: 880-52444-5  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 14:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98338	12/19/24 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			98475	12/19/24 21:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98234	12/19/24 08:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98267	12/19/24 21:01	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98252	12/19/24 09:45	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	98273	12/19/24 13:47	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: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



Method Summary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

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: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-52444-1  
SDG: 2605

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52444-1	S-1 (0-0.5')	Solid	12/16/24 00:00	12/18/24 16:46
880-52444-2	S-1 (1')	Solid	12/16/24 00:00	12/18/24 16:46
880-52444-3	S-2 (0-0.5')	Solid	12/16/24 00:00	12/18/24 16:46
880-52444-4	S-2 (1')	Solid	12/16/24 00:00	12/18/24 16:46
880-52444-5	S-2 (1.5')	Solid	12/16/24 00:00	12/18/24 16:46



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Project Manager:	Conner Moehring	Bill to: (if different)	Cammona Resources
Company Name:	Cammona 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:mcammona@cammonaresources.com">mcammona@cammonaresources.com</a>

Work Order Comments
<b>Program:</b> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> <b>State of Project:</b> <b>Reporting:</b> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> <b>Deliverables:</b> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

[illegible]

**Comments: Email to Mike Cammona / [Mcammona@cammonaresources.com](mailto:Mcammona@cammonaresources.com) and Conner Moehring / [Cmoehring@cammonaresources.com](mailto:Cmoehring@cammonaresources.com)**

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	12/18/24 @ 16:44		12/18/24



Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52444-1

SDG Number: 2605

Login Number: 52444

List Source: Eurofins Midland

List Number: 1

Creator: Lee, Randell

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

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# ANALYTICAL REPORT

## PREPARED FOR

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

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## JOB DESCRIPTION

Diamondback 22 State Com 5H (11.29.24)  
2605

## JOB NUMBER

880-52446-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701







Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

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## JOB DESCRIPTION

Diamondback 22 State Com 5H (11.29.24)  
Eddy County, New Mexico

## JOB NUMBER

880-54140-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

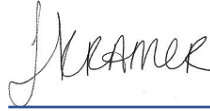
# Eurofins Midland

## 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



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2/7/2025 11:06:12 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: Diamondback 22 State Com 5H (11.29.24)

Laboratory Job ID: 880-54140-1  
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1  
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

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: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1

**Job ID: 880-54140-1**

**Eurofins Midland**

### Job Narrative 880-54140-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 2/6/2025 10:30 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 -1.7°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (2.5') (880-54140-1), CS-2 (2.5') (880-54140-2), SW-1 (2.5') (880-54140-3), SW-2 (2.5') (880-54140-4), SW-3 (2.5') (880-54140-5) and SW-4 (2.5') (880-54140-6).

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-1 (2.5') (880-54140-1), CS-2 (2.5') (880-54140-2), SW-1 (2.5') (880-54140-3), SW-2 (2.5') (880-54140-4), SW-3 (2.5') (880-54140-5), SW-4 (2.5') (880-54140-6), (CCV 880-102138/20), (LCS 880-102164/1-A), (880-54102-A-1-F) and (880-54102-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### Diesel Range Organics

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (880-54131-A-1-E MS) and (880-54131-A-1-F MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102119 and analytical batch 880-102154 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-102176 and analytical batch 880-102160 was outside the upper control limits.

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-102176/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-102176 and analytical batch 880-102160 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SW-4 (2.5') (880-54140-6) and (880-54131-A-1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-102119 and analytical batch 880-102154 was outside the upper control limits.

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

#### HPLC/IC

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Case Narrative

Client: Carmona Resources  
Project: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1

**Job ID: 880-54140-1 (Continued)** **Eurofins Midland**

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

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## Client Sample Results

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (2.5')

Lab Sample ID: 880-54140-1

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 16:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 16:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 16:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 11:00	02/06/25 16:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 16:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 11:00	02/06/25 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	02/06/25 11:00	02/06/25 16:40	1
1,4-Difluorobenzene (Surr)	80		70 - 130	02/06/25 11:00	02/06/25 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/06/25 23:11	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	<49.7	U	49.7		mg/Kg		02/06/25 10:59	02/06/25 23:11	1
Diesel Range Organics (Over C10-C28)	<49.7	U *	49.7		mg/Kg		02/06/25 10:59	02/06/25 23:11	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/06/25 10:59	02/06/25 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	02/06/25 10:59	02/06/25 23:11	1
o-Terphenyl	92		70 - 130	02/06/25 10:59	02/06/25 23:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	328		10.1		mg/Kg			02/06/25 14:49	1

Client Sample ID: CS-2 (2.5')

Lab Sample ID: 880-54140-2

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 17:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 17:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 17:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 11:00	02/06/25 17:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 17:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 11:00	02/06/25 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130	02/06/25 11:00	02/06/25 17:00	1
1,4-Difluorobenzene (Surr)	85		70 - 130	02/06/25 11:00	02/06/25 17:00	1

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## Client Sample Results

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (2.5')

Lab Sample ID: 880-54140-2

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 17:00	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			02/06/25 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/06/25 10:59	02/06/25 23:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		02/06/25 10:59	02/06/25 23:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/06/25 10:59	02/06/25 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				02/06/25 10:59	02/06/25 23:27	1
o-Terphenyl	102		70 - 130				02/06/25 10:59	02/06/25 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		10.1		mg/Kg			02/06/25 14:56	1

Client Sample ID: SW-1 (2.5')

Lab Sample ID: 880-54140-3

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

## 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		02/06/25 11:00	02/06/25 17:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:00	02/06/25 17:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:00	02/06/25 17:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/25 11:00	02/06/25 17:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:00	02/06/25 17:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/06/25 11:00	02/06/25 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130				02/06/25 11:00	02/06/25 17:21	1
1,4-Difluorobenzene (Surr)	85		70 - 130				02/06/25 11:00	02/06/25 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/06/25 17:21	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			02/06/25 23:44	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		02/06/25 10:59	02/06/25 23:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		02/06/25 10:59	02/06/25 23:44	1

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## Client Sample Results

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (2.5')

Lab Sample ID: 880-54140-3

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/06/25 10:59	02/06/25 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				02/06/25 10:59	02/06/25 23:44	1
o-Terphenyl	91		70 - 130				02/06/25 10:59	02/06/25 23:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	340		10.1		mg/Kg			02/06/25 15:04	1

Client Sample ID: SW-2 (2.5')

Lab Sample ID: 880-54140-4

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

## 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		02/06/25 11:00	02/06/25 17:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:00	02/06/25 17:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:00	02/06/25 17:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/25 11:00	02/06/25 17:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:00	02/06/25 17:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/06/25 11:00	02/06/25 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130				02/06/25 11:00	02/06/25 17:41	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/06/25 11:00	02/06/25 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/06/25 17:41	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			02/06/25 23:59	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		02/06/25 10:59	02/06/25 23:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		02/06/25 10:59	02/06/25 23:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/06/25 10:59	02/06/25 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				02/06/25 10:59	02/06/25 23:59	1
o-Terphenyl	93		70 - 130				02/06/25 10:59	02/06/25 23:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		9.96		mg/Kg			02/06/25 15:11	1

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## Client Sample Results

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (2.5')

Lab Sample ID: 880-54140-5

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 18:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 18:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 18:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 11:00	02/06/25 18:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 18:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 11:00	02/06/25 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	02/06/25 11:00	02/06/25 18:02	1
1,4-Difluorobenzene (Surr)	80		70 - 130	02/06/25 11:00	02/06/25 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/07/25 00:16	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	<49.7	U	49.7		mg/Kg		02/06/25 10:59	02/07/25 00:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U *	49.7		mg/Kg		02/06/25 10:59	02/07/25 00:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/06/25 10:59	02/07/25 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	02/06/25 10:59	02/07/25 00:16	1
o-Terphenyl	96		70 - 130	02/06/25 10:59	02/07/25 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		10.0		mg/Kg			02/06/25 15:34	1

Client Sample ID: SW-4 (2.5')

Lab Sample ID: 880-54140-6

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 18:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 18:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 18:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 11:00	02/06/25 18:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:00	02/06/25 18:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 11:00	02/06/25 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130	02/06/25 11:00	02/06/25 18:22	1
1,4-Difluorobenzene (Surr)	78		70 - 130	02/06/25 11:00	02/06/25 18:22	1

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## Client Sample Results

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (2.5')

Lab Sample ID: 880-54140-6

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 18:22	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			02/06/25 13:15	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		02/06/25 10:58	02/06/25 13:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/25 10:58	02/06/25 13:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/06/25 10:58	02/06/25 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	02/06/25 10:58	02/06/25 13:15	1
o-Terphenyl	65	S1-	70 - 130	02/06/25 10:58	02/06/25 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		9.90		mg/Kg			02/06/25 15:41	1

## Surrogate Summary

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

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)
880-54102-A-1-D MS	Matrix Spike	128	79
880-54102-A-1-E MSD	Matrix Spike Duplicate	140 S1+	79
880-54140-1	CS-1 (2.5')	154 S1+	80
880-54140-2	CS-2 (2.5')	157 S1+	85
880-54140-3	SW-1 (2.5')	160 S1+	85
880-54140-4	SW-2 (2.5')	153 S1+	84
880-54140-5	SW-3 (2.5')	145 S1+	80
880-54140-6	SW-4 (2.5')	157 S1+	78
LCS 880-102164/1-A	Lab Control Sample	132 S1+	83
LCSD 880-102164/2-A	Lab Control Sample Dup	129	83
MB 880-102164/5-A	Method Blank	127	76
<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)
880-54131-A-1-E MS	Matrix Spike	67 S1-	68 S1-
880-54131-A-1-F MSD	Matrix Spike Duplicate	69 S1-	67 S1-
880-54140-1	CS-1 (2.5')	116	92
880-54140-2	CS-2 (2.5')	128	102
880-54140-3	SW-1 (2.5')	116	91
880-54140-4	SW-2 (2.5')	121	93
880-54140-5	SW-3 (2.5')	123	96
880-54140-6	SW-4 (2.5')	74	65 S1-
880-54141-A-1-F MS	Matrix Spike	117	108
880-54141-A-1-G MSD	Matrix Spike Duplicate	112	98
LCS 880-102119/2-A	Lab Control Sample	74	77
LCS 880-102176/2-A	Lab Control Sample	88	78
LCSD 880-102119/3-A	Lab Control Sample Dup	74	76
LCSD 880-102176/3-A	Lab Control Sample Dup	61 S1-	55 S1-
MB 880-102119/1-A	Method Blank	99	92
MB 880-102176/1-A	Method Blank	187 S1+	151 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-102164/5-A

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 09:41	02/06/25 11:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 09:41	02/06/25 11:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 09:41	02/06/25 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/25 09:41	02/06/25 11:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 09:41	02/06/25 11:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/06/25 09:41	02/06/25 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	02/06/25 09:41	02/06/25 11:41	1
1,4-Difluorobenzene (Surr)	76		70 - 130	02/06/25 09:41	02/06/25 11:41	1

Lab Sample ID: LCS 880-102164/1-A

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1192		mg/Kg		119	70 - 130
Toluene	0.100	0.1042		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2260		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-102164/2-A

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102164

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1149		mg/Kg		115	70 - 130	4	35
Toluene	0.100	0.1060		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.1095		mg/Kg		109	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2274		mg/Kg		114	70 - 130	1	35
o-Xylene	0.100	0.1139		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 880-54102-A-1-D MS

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09874		mg/Kg		99	70 - 130
Toluene	<0.00200	U	0.0998	0.09860		mg/Kg		99	70 - 130

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QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-54102-A-1-D MS  
Matrix: Solid  
Analysis Batch: 102138

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 102164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.1017		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2121		mg/Kg		106	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1070		mg/Kg		107	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	128		70 - 130						
1,4-Difluorobenzene (Surr)	79		70 - 130						

Lab Sample ID: 880-54102-A-1-E MSD  
Matrix: Solid  
Analysis Batch: 102138

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 102164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1171		mg/Kg		118	70 - 130	17	35
Toluene	<0.00200	U	0.0996	0.1012		mg/Kg		102	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.1052		mg/Kg		106	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2207		mg/Kg		111	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.1104		mg/Kg		111	70 - 130	3	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	79		70 - 130								

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

Lab Sample ID: MB 880-102119/1-A  
Matrix: Solid  
Analysis Batch: 102154

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 102119

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		02/05/25 20:21	02/06/25 05:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/05/25 20:21	02/06/25 05:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/05/25 20:21	02/06/25 05:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	99		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: LCS 880-102119/2-A  
Matrix: Solid  
Analysis Batch: 102154

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 102119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	898.4		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	908.2		mg/Kg		91	70 - 130

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## QC Sample Results

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-102119/2-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102119

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

Lab Sample ID: LCSD 880-102119/3-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	752.0		mg/Kg		75	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	764.9		mg/Kg		76	70 - 130	17	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 880-54131-A-1-E MS

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	668.6	F1	mg/Kg		67	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	659.9	F1	mg/Kg		66	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	67	S1-	70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: 880-54131-A-1-F MSD

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	693.7	F1	mg/Kg		69	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	648.8	F1	mg/Kg		65	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	67	S1-	70 - 130

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## QC Sample Results

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-102176/1-A

Matrix: Solid

Analysis Batch: 102160

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102176

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/06/25 10:59	02/06/25 17:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/06/25 10:59	02/06/25 17:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/06/25 10:59	02/06/25 17:35	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	187	S1+	70 - 130				02/06/25 10:59	02/06/25 17:35	1
o-Terphenyl	151	S1+	70 - 130				02/06/25 10:59	02/06/25 17:35	1

Lab Sample ID: LCS 880-102176/2-A

Matrix: Solid

Analysis Batch: 102160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	861.0		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	800.5		mg/Kg		80	70 - 130		
Surrogate	LCS	LCS	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	88		70 - 130						
o-Terphenyl	78		70 - 130						

Lab Sample ID: LCSD 880-102176/3-A

Matrix: Solid

Analysis Batch: 102160

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102176

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	710.4		mg/Kg		71	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	693.6	*-	mg/Kg		69	70 - 130	14	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	61	S1-	70 - 130						
o-Terphenyl	55	S1-	70 - 130						

Lab Sample ID: 880-54141-A-1-F MS

Matrix: Solid

Analysis Batch: 102160

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102176

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	993	1125		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *-	993	1214		mg/Kg		122	70 - 130		

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## QC Sample Results

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-54141-A-1-F MS

Matrix: Solid

Analysis Batch: 102160

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102176

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-54141-A-1-G MSD

Matrix: Solid

Analysis Batch: 102160

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 102176

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	993	1059		mg/Kg		107	70 - 130	6	20	
Diesel Range Organics (Over C10-C28)	<49.9	U *	993	1099		mg/Kg		111	70 - 130	10	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	112		70 - 130									
o-Terphenyl	98		70 - 130									

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102169/1-A

Matrix: Solid

Analysis Batch: 102180

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<10.0	U	10.0		mg/Kg			02/06/25 14:04	1		

Lab Sample ID: LCS 880-102169/2-A

Matrix: Solid

Analysis Batch: 102180

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	257.8		mg/Kg		103	90 - 110			

Lab Sample ID: LCSD 880-102169/3-A

Matrix: Solid

Analysis Batch: 102180

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Chloride	250	262.1		mg/Kg		105	90 - 110	2	20		

Lab Sample ID: 880-54139-A-1-B MS

Matrix: Solid

Analysis Batch: 102180

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	308		250	574.5		mg/Kg		107	90 - 110		

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QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1  
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-54139-A-1-C MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 102180												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	308		250	575.5		mg/Kg		107	90 - 110	0	20	

QC Association Summary

Client: Carmona Resources

Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1

SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 102138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54140-1	CS-1 (2.5')	Total/NA	Solid	8021B	102164
880-54140-2	CS-2 (2.5')	Total/NA	Solid	8021B	102164
880-54140-3	SW-1 (2.5')	Total/NA	Solid	8021B	102164
880-54140-4	SW-2 (2.5')	Total/NA	Solid	8021B	102164
880-54140-5	SW-3 (2.5')	Total/NA	Solid	8021B	102164
880-54140-6	SW-4 (2.5')	Total/NA	Solid	8021B	102164
MB 880-102164/5-A	Method Blank	Total/NA	Solid	8021B	102164
LCS 880-102164/1-A	Lab Control Sample	Total/NA	Solid	8021B	102164
LCSD 880-102164/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102164
880-54102-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	102164
880-54102-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	102164

Prep Batch: 102164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54140-1	CS-1 (2.5')	Total/NA	Solid	5035	
880-54140-2	CS-2 (2.5')	Total/NA	Solid	5035	
880-54140-3	SW-1 (2.5')	Total/NA	Solid	5035	
880-54140-4	SW-2 (2.5')	Total/NA	Solid	5035	
880-54140-5	SW-3 (2.5')	Total/NA	Solid	5035	
880-54140-6	SW-4 (2.5')	Total/NA	Solid	5035	
MB 880-102164/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102164/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102164/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-54102-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-54102-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 102289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54140-1	CS-1 (2.5')	Total/NA	Solid	Total BTEX	
880-54140-2	CS-2 (2.5')	Total/NA	Solid	Total BTEX	
880-54140-3	SW-1 (2.5')	Total/NA	Solid	Total BTEX	
880-54140-4	SW-2 (2.5')	Total/NA	Solid	Total BTEX	
880-54140-5	SW-3 (2.5')	Total/NA	Solid	Total BTEX	
880-54140-6	SW-4 (2.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54140-6	SW-4 (2.5')	Total/NA	Solid	8015NM Prep	
MB 880-102119/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102119/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54131-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-54131-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54140-6	SW-4 (2.5')	Total/NA	Solid	8015B NM	102119
MB 880-102119/1-A	Method Blank	Total/NA	Solid	8015B NM	102119
LCS 880-102119/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102119

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## QC Association Summary

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

## GC Semi VOA (Continued)

## Analysis Batch: 102154 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-102119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102119
880-54131-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	102119
880-54131-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102119

## Analysis Batch: 102160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54140-1	CS-1 (2.5')	Total/NA	Solid	8015B NM	102176
880-54140-2	CS-2 (2.5')	Total/NA	Solid	8015B NM	102176
880-54140-3	SW-1 (2.5')	Total/NA	Solid	8015B NM	102176
880-54140-4	SW-2 (2.5')	Total/NA	Solid	8015B NM	102176
880-54140-5	SW-3 (2.5')	Total/NA	Solid	8015B NM	102176
MB 880-102176/1-A	Method Blank	Total/NA	Solid	8015B NM	102176
LCS 880-102176/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102176
LCSD 880-102176/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102176
880-54141-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	102176
880-54141-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102176

## Prep Batch: 102176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54140-1	CS-1 (2.5')	Total/NA	Solid	8015NM Prep	
880-54140-2	CS-2 (2.5')	Total/NA	Solid	8015NM Prep	
880-54140-3	SW-1 (2.5')	Total/NA	Solid	8015NM Prep	
880-54140-4	SW-2 (2.5')	Total/NA	Solid	8015NM Prep	
880-54140-5	SW-3 (2.5')	Total/NA	Solid	8015NM Prep	
MB 880-102176/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102176/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102176/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54141-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-54141-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 102277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54140-1	CS-1 (2.5')	Total/NA	Solid	8015 NM	
880-54140-2	CS-2 (2.5')	Total/NA	Solid	8015 NM	
880-54140-3	SW-1 (2.5')	Total/NA	Solid	8015 NM	
880-54140-4	SW-2 (2.5')	Total/NA	Solid	8015 NM	
880-54140-5	SW-3 (2.5')	Total/NA	Solid	8015 NM	
880-54140-6	SW-4 (2.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 102169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54140-1	CS-1 (2.5')	Soluble	Solid	DI Leach	
880-54140-2	CS-2 (2.5')	Soluble	Solid	DI Leach	
880-54140-3	SW-1 (2.5')	Soluble	Solid	DI Leach	
880-54140-4	SW-2 (2.5')	Soluble	Solid	DI Leach	
880-54140-5	SW-3 (2.5')	Soluble	Solid	DI Leach	
880-54140-6	SW-4 (2.5')	Soluble	Solid	DI Leach	
MB 880-102169/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102169/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1  
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 102169 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-102169/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54139-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-54139-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 102180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54140-1	CS-1 (2.5')	Soluble	Solid	300.0	102169
880-54140-2	CS-2 (2.5')	Soluble	Solid	300.0	102169
880-54140-3	SW-1 (2.5')	Soluble	Solid	300.0	102169
880-54140-4	SW-2 (2.5')	Soluble	Solid	300.0	102169
880-54140-5	SW-3 (2.5')	Soluble	Solid	300.0	102169
880-54140-6	SW-4 (2.5')	Soluble	Solid	300.0	102169
MB 880-102169/1-A	Method Blank	Soluble	Solid	300.0	102169
LCS 880-102169/2-A	Lab Control Sample	Soluble	Solid	300.0	102169
LCSD 880-102169/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102169
880-54139-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	102169
880-54139-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	102169

## Lab Chronicle

Client: Carmona Resources

Job ID: 880-54140-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (2.5')

Lab Sample ID: 880-54140-1

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

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	102164	02/06/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102138	02/06/25 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102289	02/06/25 16:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102277	02/06/25 23:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102176	02/06/25 10:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102160	02/06/25 23:11	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102169	02/06/25 10:52	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102180	02/06/25 14:49	SMC	EET MID

Client Sample ID: CS-2 (2.5')

Lab Sample ID: 880-54140-2

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102164	02/06/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102138	02/06/25 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102289	02/06/25 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102277	02/06/25 23:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102176	02/06/25 10:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102160	02/06/25 23:27	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102169	02/06/25 10:52	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102180	02/06/25 14:56	SMC	EET MID

Client Sample ID: SW-1 (2.5')

Lab Sample ID: 880-54140-3

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102164	02/06/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102138	02/06/25 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102289	02/06/25 17:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102277	02/06/25 23:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102176	02/06/25 10:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102160	02/06/25 23:44	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102169	02/06/25 10:52	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102180	02/06/25 15:04	SMC	EET MID

Client Sample ID: SW-2 (2.5')

Lab Sample ID: 880-54140-4

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102164	02/06/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102138	02/06/25 17:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102289	02/06/25 17:41	AJ	EET MID

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Lab Chronicle

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (2.5')  
Date Collected: 02/04/25 00:00  
Date Received: 02/06/25 10:30

Lab Sample ID: 880-54140-4  
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			102277	02/06/25 23:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102176	02/06/25 10:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102160	02/06/25 23:59	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102169	02/06/25 10:52	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102180	02/06/25 15:11	SMC	EET MID

Client Sample ID: SW-3 (2.5')  
Date Collected: 02/04/25 00:00  
Date Received: 02/06/25 10:30

Lab Sample ID: 880-54140-5  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102164	02/06/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102138	02/06/25 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102289	02/06/25 18:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102277	02/07/25 00:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102176	02/06/25 10:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102160	02/07/25 00:16	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102169	02/06/25 10:52	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102180	02/06/25 15:34	SMC	EET MID

Client Sample ID: SW-4 (2.5')  
Date Collected: 02/04/25 00:00  
Date Received: 02/06/25 10:30

Lab Sample ID: 880-54140-6  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102164	02/06/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102138	02/06/25 18:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102289	02/06/25 18:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102277	02/06/25 13:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102119	02/06/25 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102154	02/06/25 13:15	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	102169	02/06/25 10:52	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102180	02/06/25 15:41	SMC	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1  
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1  
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: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54140-1  
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-54140-1	CS-1 (2.5')	Solid	02/04/25 00:00	02/06/25 10:30
880-54140-2	CS-2 (2.5')	Solid	02/04/25 00:00	02/06/25 10:30
880-54140-3	SW-1 (2.5')	Solid	02/04/25 00:00	02/06/25 10:30
880-54140-4	SW-2 (2.5')	Solid	02/04/25 00:00	02/06/25 10:30
880-54140-5	SW-3 (2.5')	Solid	02/04/25 00:00	02/06/25 10:30
880-54140-6	SW-4 (2.5')	Solid	02/04/25 00:00	02/06/25 10:30

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880-541 40 Chain of Custody

## Chain of Custody

Page 1 of 1

Project Manager:	Conner Moehring	Bill to: (if different)	Camrona Resources
Company Name:	Camrona 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:mcamrona@camronaresources.com">mcamrona@camronaresources.com</a>

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

ANALYSIS REQUEST									
Turn Around					Preservative Codes				
<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush Due Date: 24 Hour TAT					None: NO Cool: Cool HCL: HC H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC				
Parameters					Sample Comments				
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	TPH 8015M (GRO + DRO + MRO)	BTEX 8021B	Chloride 300.0
CS-1 (2.5')	2/4/2025		X		Comp	1	X	X	
CS-2 (2.5')	2/4/2025		X		Comp	1	X	X	
SW-1 (2.5')	2/4/2025		X		Comp	1	X	X	
SW-2 (2.5')	2/4/2025		X		Comp	1	X	X	
SW-3 (2.5')	2/4/2025		X		Comp	1	X	X	
SW-4 (2.5')	2/4/2025		X		Comp	1	X	X	

Comments: Email to Mike Camrona / [Mcamrona@camronaresources.com](mailto:Mcamrona@camronaresources.com) and Conner Moehring / [Cmoehring@camronaresources.com](mailto:Cmoehring@camronaresources.com)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Mike Camrona</i>	2-6-25 @	<i>[Signature]</i>	2/6/25 10:20

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-54140-1

SDG Number: Eddy County, New Mexico

Login Number: 54140

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 2/7/2025 11:08:45 AM

## JOB DESCRIPTION

Diamondback 22 State Com 5H (11.29.24)  
Eddy County, New Mexico

## JOB NUMBER

880-54139-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

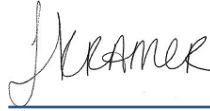
# Eurofins Midland

## 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  
2/7/2025 11:08:45 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: Diamondback 22 State Com 5H (11.29.24)

Laboratory Job ID: 880-54139-1  
SDG: Eddy County, New Mexico

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## Definitions/Glossary

Client: Carmona Resources

Job ID: 880-54139-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

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.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

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

## Glossary

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

Eurofins Midland

Case Narrative

Client: Carmona Resources  
Project: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54139-1

Job ID: 880-54139-1

Eurofins Midland

Job Narrative  
880-54139-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 2/6/2025 10:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.7°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: R360 red Bluff (880-54139-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (880-54131-A-1-E MS) and (880-54131-A-1-F MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102119 and analytical batch 880-102154 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-102119 and analytical batch 880-102154 was outside the upper control limits.

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

HPLC/IC

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

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## Client Sample Results

Client: Carmona Resources

Job ID: 880-54139-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

Client Sample ID: R360 red Bluff

Lab Sample ID: 880-54139-1

Date Collected: 02/04/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:01	02/06/25 17:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:01	02/06/25 17:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:01	02/06/25 17:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 11:01	02/06/25 17:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 11:01	02/06/25 17:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 11:01	02/06/25 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	02/06/25 11:01	02/06/25 17:38	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/06/25 11:01	02/06/25 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 17:38	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			02/06/25 13:31	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		02/06/25 10:58	02/06/25 13:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/25 10:58	02/06/25 13:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/06/25 10:58	02/06/25 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	02/06/25 10:58	02/06/25 13:31	1
o-Terphenyl	72		70 - 130	02/06/25 10:58	02/06/25 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308		10.0		mg/Kg			02/06/25 14:27	1

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## Surrogate Summary

Client: Carmona Resources

Job ID: 880-54139-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

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)
880-54139-1	R360 red Bluff	99	101
880-54141-A-1-B MS	Matrix Spike	91	112
880-54141-A-1-C MSD	Matrix Spike Duplicate	98	105
LCS 880-102178/1-A	Lab Control Sample	116	129
LCSD 880-102178/2-A	Lab Control Sample Dup	96	115
MB 880-102178/5-A	Method Blank	96	93
<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)
880-54131-A-1-E MS	Matrix Spike	67 S1-	68 S1-
880-54131-A-1-F MSD	Matrix Spike Duplicate	69 S1-	67 S1-
880-54139-1	R360 red Bluff	83	72
LCS 880-102119/2-A	Lab Control Sample	74	77
LCSD 880-102119/3-A	Lab Control Sample Dup	74	76
MB 880-102119/1-A	Method Blank	99	92
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Carmona Resources

Job ID: 880-54139-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-102178/5-A

Matrix: Solid

Analysis Batch: 101988

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:01	02/06/25 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:01	02/06/25 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:01	02/06/25 12:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/25 11:01	02/06/25 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:01	02/06/25 12:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/06/25 11:01	02/06/25 12:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	02/06/25 11:01	02/06/25 12:39	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/06/25 11:01	02/06/25 12:39	1

Lab Sample ID: LCS 880-102178/1-A

Matrix: Solid

Analysis Batch: 101988

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1214		mg/Kg		121	70 - 130
Toluene	0.100	0.1060		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1174		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2402		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1194		mg/Kg		119	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	129		70 - 130

Lab Sample ID: LCSD 880-102178/2-A

Matrix: Solid

Analysis Batch: 101988

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102178

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1010		mg/Kg		101	70 - 130	18	35
Toluene	0.100	0.08827		mg/Kg		88	70 - 130	18	35
Ethylbenzene	0.100	0.09811		mg/Kg		98	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.2007		mg/Kg		100	70 - 130	18	35
o-Xylene	0.100	0.09958		mg/Kg		100	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 880-54141-A-1-B MS

Matrix: Solid

Analysis Batch: 101988

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09771		mg/Kg		98	70 - 130
Toluene	<0.00200	U	0.0998	0.08452		mg/Kg		85	70 - 130

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## QC Sample Results

Client: Carmona Resources

Job ID: 880-54139-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-54141-A-1-B MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 101988

Prep Batch: 102178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.09304		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1926		mg/Kg		96	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09513		mg/Kg		95	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		70 - 130						
1,4-Difluorobenzene (Surr)	112		70 - 130						

Lab Sample ID: 880-54141-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 101988

Prep Batch: 102178

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09013		mg/Kg		90	70 - 130	8	35
Toluene	<0.00200	U	0.0996	0.07665		mg/Kg		77	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.0996	0.08344		mg/Kg		84	70 - 130	11	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1736		mg/Kg		87	70 - 130	10	35
o-Xylene	<0.00200	U	0.0996	0.08764		mg/Kg		88	70 - 130	8	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

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

Lab Sample ID: MB 880-102119/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 102154

Prep Batch: 102119

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		02/05/25 20:21	02/06/25 05:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/05/25 20:21	02/06/25 05:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/05/25 20:21	02/06/25 05:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				02/05/25 20:21	02/06/25 05:08	1
o-Terphenyl	92		70 - 130				02/05/25 20:21	02/06/25 05:08	1

Lab Sample ID: LCS 880-102119/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 102154

Prep Batch: 102119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	898.4		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	908.2		mg/Kg		91	70 - 130

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## QC Sample Results

Client: Carmona Resources

Job ID: 880-54139-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-102119/2-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102119

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

Lab Sample ID: LCSD 880-102119/3-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	752.0		mg/Kg		75	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	764.9		mg/Kg		76	70 - 130	17	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 880-54131-A-1-E MS

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	668.6	F1	mg/Kg		67	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	659.9	F1	mg/Kg		66	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	67	S1-	70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: 880-54131-A-1-F MSD

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	693.7	F1	mg/Kg		69	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	648.8	F1	mg/Kg		65	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	67	S1-	70 - 130

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## QC Sample Results

Client: Carmona Resources

Job ID: 880-54139-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102169/1-A

Matrix: Solid

Analysis Batch: 102180

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/06/25 14:04	1

Lab Sample ID: LCS 880-102169/2-A

Matrix: Solid

Analysis Batch: 102180

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.8		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-102169/3-A

Matrix: Solid

Analysis Batch: 102180

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	262.1		mg/Kg		105	90 - 110	2	20

Lab Sample ID: 880-54139-1 MS

Matrix: Solid

Analysis Batch: 102180

Client Sample ID: R360 red Bluff

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	308		250	574.5		mg/Kg		107	90 - 110

Lab Sample ID: 880-54139-1 MSD

Matrix: Solid

Analysis Batch: 102180

Client Sample ID: R360 red Bluff

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	308		250	575.5		mg/Kg		107	90 - 110	0	20

Eurofins Midland

## QC Association Summary

Client: Carmona Resources

Job ID: 880-54139-1

Project/Site: Diamondback 22 State Com 5H (11.29.24)

SDG: Eddy County, New Mexico

## GC VOA

## Analysis Batch: 101988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54139-1	R360 red Bluff	Total/NA	Solid	8021B	102178
MB 880-102178/5-A	Method Blank	Total/NA	Solid	8021B	102178
LCS 880-102178/1-A	Lab Control Sample	Total/NA	Solid	8021B	102178
LCSD 880-102178/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102178
880-54141-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	102178
880-54141-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	102178

## Prep Batch: 102178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54139-1	R360 red Bluff	Total/NA	Solid	5035	
MB 880-102178/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102178/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-54141-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-54141-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 102293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54139-1	R360 red Bluff	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 102119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54139-1	R360 red Bluff	Total/NA	Solid	8015NM Prep	
MB 880-102119/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102119/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54131-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-54131-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 102154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54139-1	R360 red Bluff	Total/NA	Solid	8015B NM	102119
MB 880-102119/1-A	Method Blank	Total/NA	Solid	8015B NM	102119
LCS 880-102119/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102119
LCSD 880-102119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102119
880-54131-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	102119
880-54131-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102119

## Analysis Batch: 102280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54139-1	R360 red Bluff	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 102169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54139-1	R360 red Bluff	Soluble	Solid	DI Leach	
MB 880-102169/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102169/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102169/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54139-1  
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 102169 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54139-1 MS	R360 red Bluff	Soluble	Solid	DI Leach	
880-54139-1 MSD	R360 red Bluff	Soluble	Solid	DI Leach	

Analysis Batch: 102180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54139-1	R360 red Bluff	Soluble	Solid	300.0	102169
MB 880-102169/1-A	Method Blank	Soluble	Solid	300.0	102169
LCS 880-102169/2-A	Lab Control Sample	Soluble	Solid	300.0	102169
LCSD 880-102169/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102169
880-54139-1 MS	R360 red Bluff	Soluble	Solid	300.0	102169
880-54139-1 MSD	R360 red Bluff	Soluble	Solid	300.0	102169

Lab Chronicle

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54139-1  
SDG: Eddy County, New Mexico

Client Sample ID: R360 red Bluff  
Date Collected: 02/04/25 00:00  
Date Received: 02/06/25 10:30

Lab Sample ID: 880-54139-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102178	02/06/25 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/06/25 17:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102293	02/06/25 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102280	02/06/25 13:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102119	02/06/25 10:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102154	02/06/25 13:31	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102169	02/06/25 10:52	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102180	02/06/25 14:27	SMC	EET MID

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



Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54139-1  
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources  
Project/Site: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54139-1  
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: Diamondback 22 State Com 5H (11.29.24)

Job ID: 880-54139-1  
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-54139-1	R360 red Bluff	Solid	02/04/25 00:00	02/06/25 10:30

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



880-54139 Chain of Custody

Page 1 of 1

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

**Work Order Comments**

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

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other: ☐

[illegible]

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>David Brown</i>	2/6/25	<i>[Signature]</i>	2/6/25 1030

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-54139-1

SDG Number: Eddy County, New Mexico

Login Number: 54139

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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	

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Energy, Minerals and Natural Resources

Oil Conservation Division

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Santa Fe, NM 87505

QUESTIONS

Action 503262

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 503262
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434539621
Incident Name	NAPP2434539621 DIAMONDBACK 22 ST COM 5H @ 30-015-42432
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42432] DIAMONDBACK 22 STATE COM #005H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DIAMONDBACK 22 ST COM 5H
Date Release Discovered	11/29/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Fire   Other (Specify)   Crude Oil   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Fire   Other (Specify)   Produced Water   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.



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QUESTIONS, Page 2

Action 503262

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 503262
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<b>Not answered.</b>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: <a href="mailto:brittany.Esparza@ConocoPhillips.com">brittany.Esparza@ConocoPhillips.com</a> Date: 09/05/2025
--	--

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QUESTIONS, Page 3

Action 503262

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 503262
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	10800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	11100
GRO+DRO (EPA SW-846 Method 8015M)	11051
BTEX (EPA SW-846 Method 8021B or 8260B)	80.2
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	02/04/2025
On what date will (or did) the final sampling or liner inspection occur	02/04/2025
On what date will (or was) the remediation complete(d)	02/06/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	312
What is the estimated volume (in cubic yards) that will be remediated	70
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 503262

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 503262
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fAPP2123262143 Red Bluff Gathering System
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 09/05/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5  
  
Action 503262

QUESTIONS (continued)

Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:  229137
	Action Number:  503262
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 503262

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 503262
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	426794
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/04/2025
What was the (estimated) number of samples that were to be gathered	9
What was the sampling surface area in square feet	663

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	312
What was the total volume (cubic yards) remediated	70
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	NA
<i>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 (in .pdf format) 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.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: <a href="mailto:brittany.Esparza@ConocoPhillips.com">brittany.Esparza@ConocoPhillips.com</a> Date: 09/05/2025

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QUESTIONS (continued)

Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:  229137
	Action Number:  503262
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No



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CONDITIONS

Action 503262

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 503262
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	10/7/2025