State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 03/16/2023

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

Closure Approved by: Robert Hamlet Date: _____

Printed Name: _____ Title: _____

CARMONA RESOURCES

SITE INFORMATION

Closure Report
Diamondback 22 State Com 005H (11.23.22)
Incident #NAPP2234635594
Eddy County, New Mexico
Unit A Sec 22 T26S R28E
32.03492°, -104.07009

Crude Oil Release
Point of Release: Equipment Malfunction
Release Date: 11.23.22
Volume Released: 0.5 barrels of Crude Oil
Volume Recovered: 0 barrels of Crude Oil

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

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 500
Midland, Texas 79701

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

CARMONA RESOURCES

TABLE OF CONTENTS

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

CARMONA RESOURCES

March 15, 2023

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

Re: Closure Report
Diamondback 22 State Com 005H (11.23.22)
Concho Operating, LLC
Site Location: Unit A, S22, T26S, R28E
(Lat 32.03492º, Long -104.07009º)
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 005H (11.23.22). The site is located at 32.03492°, -104.07009° within Unit A, S22, T26S, R28E, and in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on November 23, 2022, caused by a well-losing casing pressure causing the swap out to the vessel resulting in a flare fire. It released approximately zero point five (0.5) barrels of crude oil, and zero (0) barrels of crude oil were recovered. The impacted area occurred on the pad, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, one known water source is within a 0.50-mile radius of the location. The nearest identified well is 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' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

On December 12, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. To assess the vertical and horizontal extent, one (1) sample point (S-1) and four (4) horizontal points (H-1 through H-4) were advanced to depths ranging from the surface to 1’ bgs inside the release

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

CARMONA RESOURCES

area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

Vertical Delineation

The area of S-1 had an elevated TPH concentration of 976 mg/kg from the surface to 1' bgs and a high chloride concentration of 934 mg/kg from the surface to 1' bgs. The area of S-1 was below the regulatory limits for BTEX concentrations. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-4 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on February 7, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 1.5' below the surface to remove all the impacted soils. A total of three (3) floor confirmation samples were collected (CS-1 through CS-3), 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 E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 120 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,
Carmona Resources, LLC

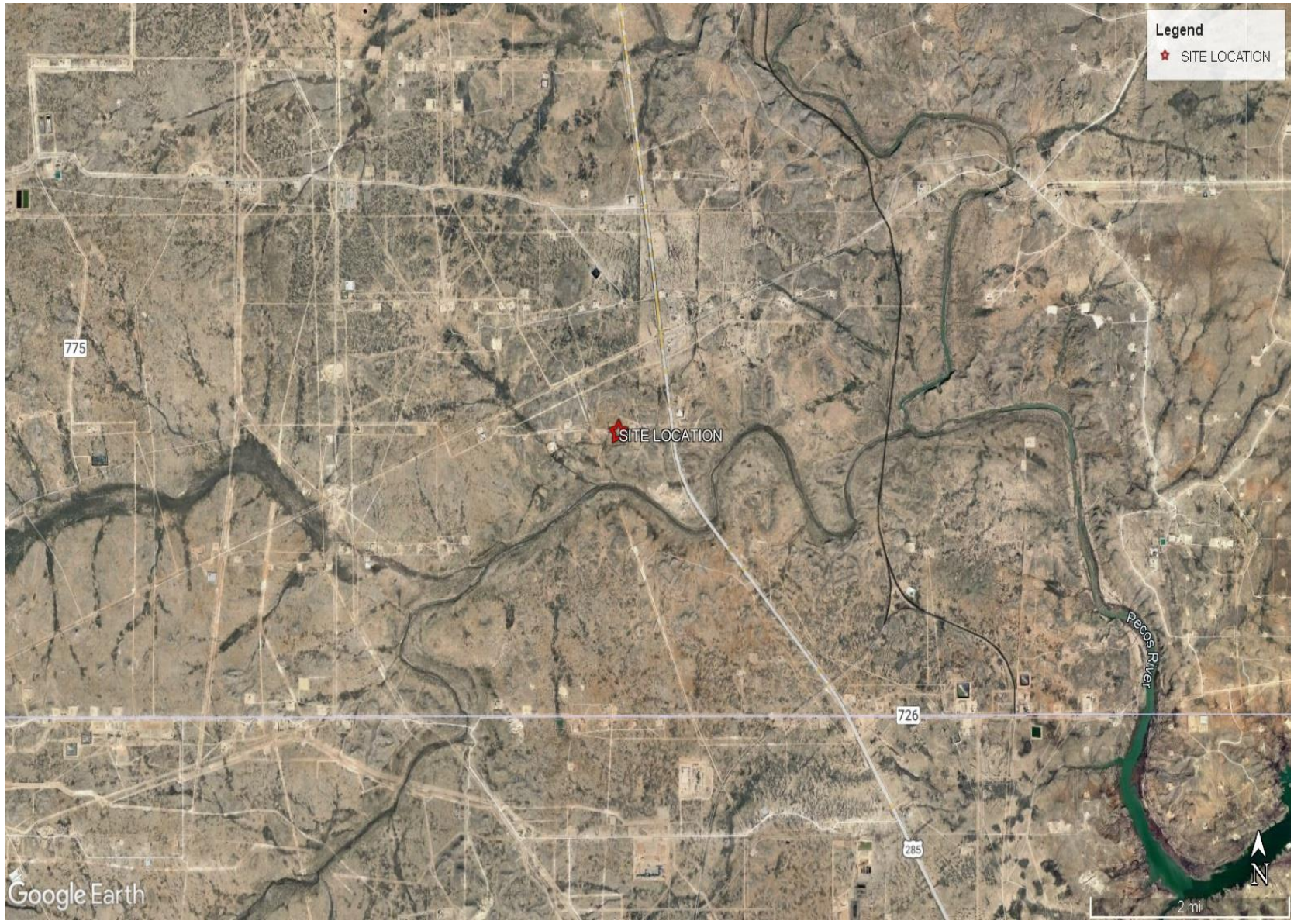
Mike Carmona
Environmental Manager

Clinton Merritt
Sr. Project Manager

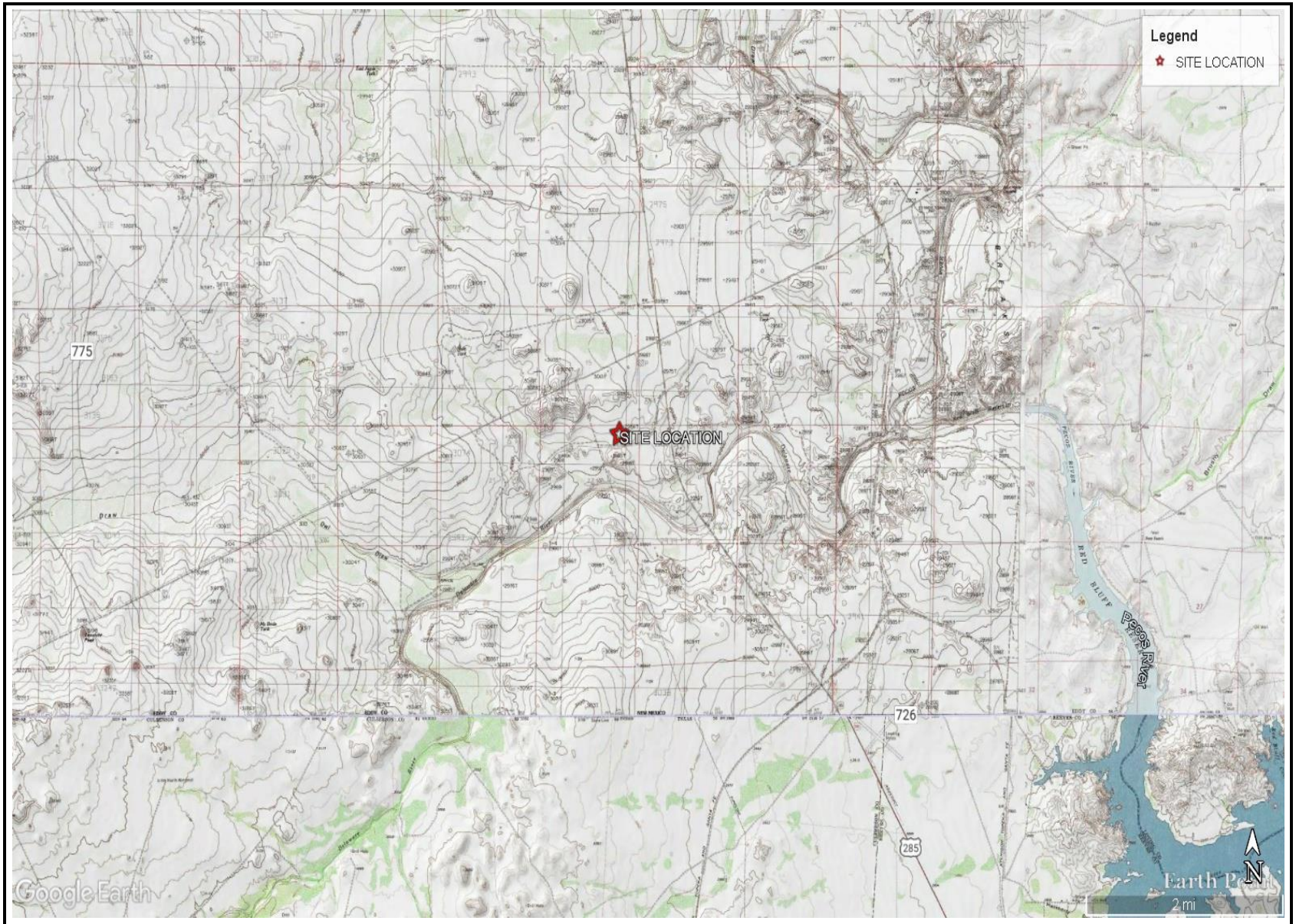
310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

FIGURES

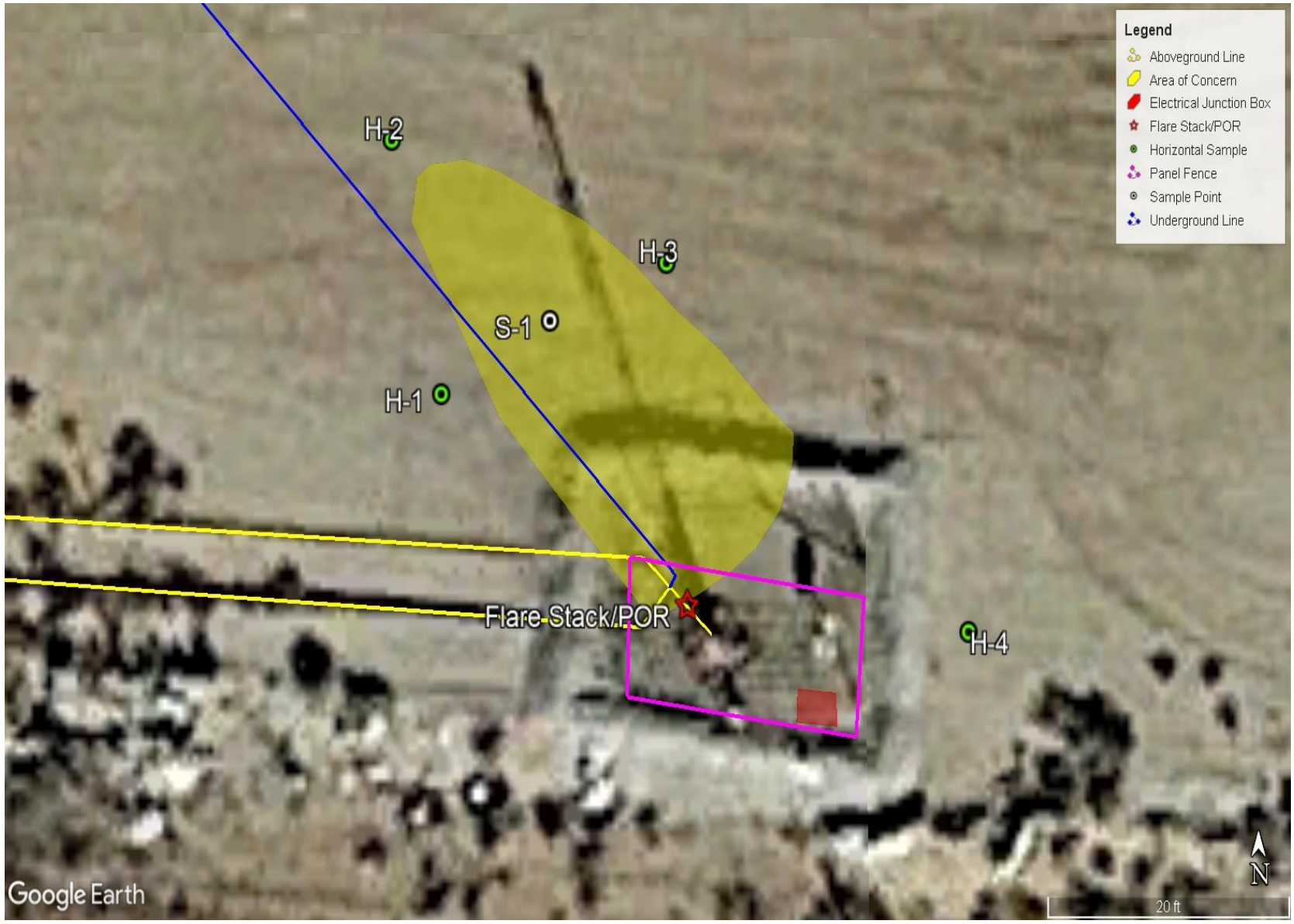
CARMONA RESOURCES



SITE OVERVIEW MAP COG OPERATING, LLC DIAMONDBACK 22 STATE COM 005H (11.23.22) EDDY COUNTY, NEW MEXICO 32.03492, -104.07009	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP COG OPERATING, LLC DIAMONDBACK 22 STATE COM 005H (11.23.22) EDDY COUNTY, NEW MEXICO 32.03492, -104.07009	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP COG OPERATING, LLC DIAMONDBACK 22 STATE COM 005H (11.23.22) EDDY COUNTY, NEW MEXICO 32.03492, -104.07009	CARMONA RESOURCES	FIGURE 3

EXCAVATION MAP COG OPERATING, LLC DIAMONDBACK 22 STATE COM 005H (11.23.22) EDDY COUNTY, NEW MEXICO 32.03492, -104.07009	CARMONA RESOURCES	FIGURE 4

APPENDIX A

CARMONA RESOURCES

Table 1
COG
Diamondback 22 State Com #5 Flare Fire (11.23.22)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	12/12/2022	0-1	**341**	**635**	<49.9	**976**	0.0993	0.0435	0.294	8.00	6.76	**934**
H-1	12/12/2022	0-0.5	<49.9	92.9	<49.9	92.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	268
H-2	12/12/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	262
H-3	12/12/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	282
H-4	12/12/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	201
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**	-	-	-	**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft - feet
(S) - Sample Point
(H) - Horizontal
Removed

Table 2
COG
Diamondback 22 State Com #5 Flare Fire (11.23.22)
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						
CS-1	2/9/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	0.00275	<0.00199	<0.00398	<0.00398	407
CS-2	2/9/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	332
CS-3	2/9/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	32.3
SW-1	2/9/2023	1.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	390
SW-2	2/9/2023	1.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	123
SW-3	2/9/2023	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10.0
SW-4	2/9/2023	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	432
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**	-	-	-	**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft - feet
(CS) - Confirmation Sample
(SW) - Sidewall

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Diamondback 22 State Com 005H (11.23.22)

County: Eddy County, New Mexico

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

Photograph No. 2

Facility: Diamondback 22 State Com 005H (11.23.22)

County: Eddy County, New Mexico

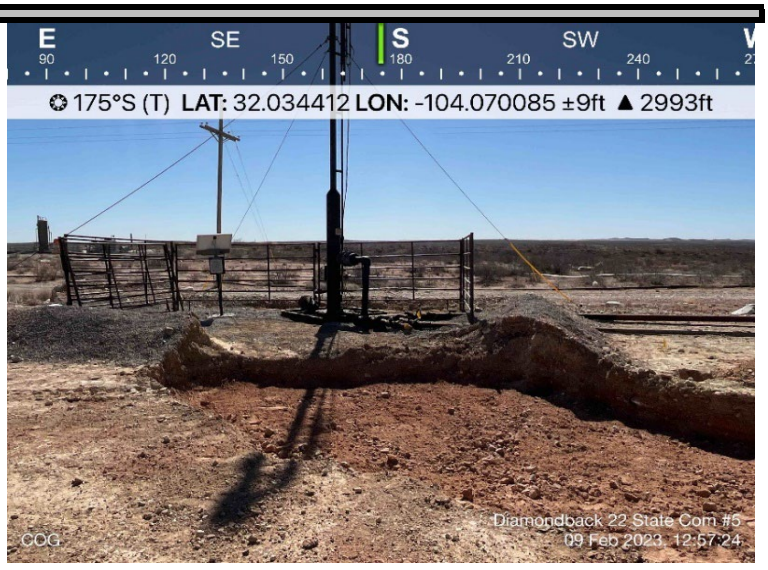
Description:
View Southeast, area of CS-1 through CS-3.

Photograph No. 3

Facility: Diamondback 22 State Com 005H (11.23.22)

County: Eddy County, New Mexico

Description:
View South, area of CS-1.



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Diamondback 22 State Com 005H (11.23.22)

County: Eddy County, New Mexico

Description:
View Northwest, area of CS-1 through CS-3.

APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 12/12/2022

L48 Spill Volume Estimate Form

NAPP2234635594

Facility Name & Number:	Diamondback 22 State Com 5H
Asset Area:	DBW
Release Discovery Date & Time:	11.23.22
Release Type:	Oil
Provide any known details about the event:	loss in pressure swamped vessel out

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	15.0	10.0	2.00	10.50%	4.450	0.467
Rectangle B					0.000	0.000
Rectangle C					0.000	0.000
Rectangle D					0.000	0.000
Rectangle E					0.000	0.000
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
					0.000	0.000
					Total Volume Release:	0.467

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

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

CONDITIONS

Action 166011

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 166011
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/12/2022

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 03/16/2023

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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☐ Description of remediation activities

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Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 03/16/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

From: Enviro, OCD, EMNRD
Sent: Tuesday, February 7, 2023 10:29 AM
To: Mike Carmona; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc: Conner Moehring; Harris, Jacqui
Subject: RE: [EXTERNAL] COG - Diamondback 22 State Com 005H (11.23.22)- Sampling Notification - Incident No.NAPP2234635594

Mike,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Mike Carmona <Mcarmona@carmonaresources.com>
Sent: Monday, February 6, 2023 4:06 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Conner Moehring <Cmoehring@carmonaresources.com>; Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Subject: [EXTERNAL] COG - Diamondback 22 State Com 005H (11.23.22)- Sampling Notification -Incident No.NAPP2234635594

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

Good Afternoon,

On behalf of COG, Carmona Resources will collect confirmation samples for the below-referenced site on 02/08/23 around 5:10 p.m. Mountain Time. Please let me know if you have any questions.

COG - Diamondback 22 State Com 005H (11.23.22)
Sec 22 T26S R28E Unit A
32.03492, -104.07009
Eddy County, New Mexico

Mike J. Carmona
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com

CARMONA RESOURCES

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

COG Operating

175' - Drilled 2017

120' - Drilled 1960

Diamondback 22 State Com 005H (11.23.22)

22.35' - Drilled 1998

120' - Drilled 1961

Legend

- 0.40 Miles
- 0.50 Mile Radius
- 0.63 Miles
- 0.65 Miles
- 0.84 Miles
- Diamondback 22 State Com 005H (11.23.22)
- NMSEO Water Well
- USGS Water Well

N

2000 ft

Google Earth

High Karst

COG Operating

Legend

- Diamondback 22 State Com 005H (11.23.22)
- High
- Medium

Diamondback 22 State Com 005H (11.23.22)

N

4000 ft

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04022 POD1	CUB	ED	4	4	2	15	26S	28E	588082	3545647	1002	220	175	45
C 02160 S6	CUB	ED	3	3	1	14	26S	28E	588232	3545635*	1042	300	120	180
C 02160 S7	CUB	ED	3	3	1	22	26S	28E	586638	3543998*	1352	300	120	180
C 02481	CUB	ED		1	1	14	26S	28E	588326	3546138*	1544	200		
C 02160 S5	CUB	ED	1	1	1	14	26S	28E	588225	3546237*	1608	300	120	180
C 04022 POD2	CUB	ED	2	2	2	27	26S	28E	588106	3543082	1630	250	145	105
C 02479	CUB	ED		4	4	10	26S	28E	587909	3546534*	1852	200		
C 02480	CUB	ED		4	4	10	26S	28E	587909	3546534*	1852	150		
C 02160 S3	CUB	ED	2	2	1	14	26S	28E	588834	3546241*	1866	300	120	180
C 02160 S4	CUB	ED	2	2	1	14	26S	28E	588834	3546241*	1866	300	120	180
C 02160	CUB	ED	4	1	2	14	26S	28E	589243	3546044*	1980	300	120	180
C 02160 S	CUB	ED	1	1	2	14	26S	28E	589043	3546244*	1992	300	120	180
C 02160 S2	CUB	ED	1	1	2	14	26S	28E	589043	3546244*	1992	300	120	180
C 01668	CUB	ED		3	3	12	26S	28E	589957	3546554*	2852	250	100	150
C 02160 S8	CUB	ED	2	3	3	12	26S	28E	590056	3546653*	2991	200	120	80
C 02924	C	ED	1	3	2	11	26S	28E	589032	3547451*	3027			
C 02894	C	ED	2	2	3	12	26S	28E	590458	3547061*	3563	240		

Average Depth to Water: **125 feet**

Minimum Depth: **100 feet**

Maximum Depth: **175 feet**

Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 587803.36 **Northing (Y):** 3544684.29 **Radius:** 4000

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

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

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

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
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.

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

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

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

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 04022 POD1	4	4	2	15	26S	28E	588082	3545647

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

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

Casing Perforations:	Top	Bottom
	160	220

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 02160 S6	3	3	1	14	26S	28E	588232	3545635*

Driller License: **Driller Company:**

Driller Name: HEMLER

Drill Start Date:		**Drill Finish Date:**	11/01/1960	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	300 feet	**Depth Water:**	120 feet

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

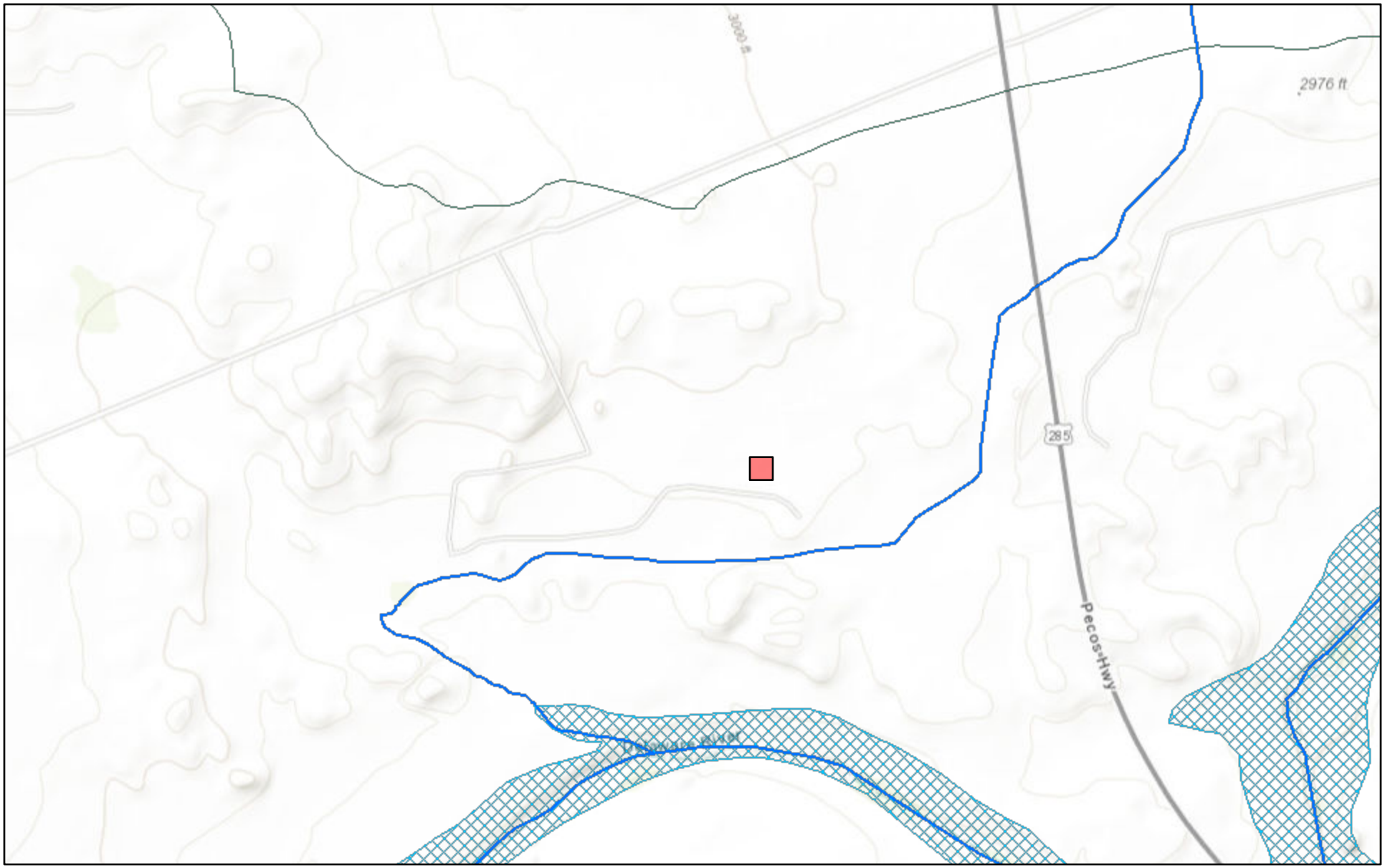
Driller License: **Driller Company:**

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**

New Mexico NFHL Data



December 12, 2022

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

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

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APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 12/15/2022 3:07:51 PM

JOB DESCRIPTION

Diamondback 22 St, Com #5H (11.23.22)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-22625-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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
12/15/2022 3:07:51 PM

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

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Laboratory Job ID: 880-22625-1
SDG: Eddy County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

Job ID: 880-22625-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22625-1

Receipt
The samples were received on 12/13/2022 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1") (880-22625-1), H-1 (0-6") (880-22625-2), H-2 (0-6") (880-22625-3), H-3 (0-6") (880-22625-4) and H-4 (0-6") (880-22625-5).

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-41758 and analytical batch 880-41864 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41757 and analytical batch 880-41782 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 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (0-1") (880-22625-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41768 and analytical batch 880-41782 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-4 (0-6") (880-22625-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41740 and analytical batch 880-41776 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22625-1
Matrix: Solid
Date Collected: 12/12/22 00:00
Date Received: 12/13/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0993		0.00199		mg/Kg		12/13/22 13:22	12/14/22 17:57	1
Toluene	0.0435		0.00199		mg/Kg		12/13/22 13:22	12/14/22 17:57	1
Ethylbenzene	0.294		0.00199		mg/Kg		12/13/22 13:22	12/14/22 17:57	1
m-Xylene & p-Xylene	5.95		0.0802		mg/Kg		12/13/22 13:34	12/15/22 14:42	20
o-Xylene	0.370		0.00199		mg/Kg		12/13/22 13:22	12/14/22 17:57	1
Xylenes, Total	8.00		0.0802		mg/Kg		12/13/22 13:34	12/15/22 14:42	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*12/13/22 13:22*	*12/14/22 17:57*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/13/22 13:22*	*12/14/22 17:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	6.76		0.0802		mg/Kg			12/15/22 11:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	976		49.9		mg/Kg			12/14/22 16:09	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	341		49.9		mg/Kg		12/13/22 15:25	12/14/22 11:57	1
Diesel Range Organics (Over C10-C28)	635		49.9		mg/Kg		12/13/22 15:25	12/14/22 11:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/22 15:25	12/14/22 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*12/13/22 15:25*	*12/14/22 11:57*	*1*
o-Terphenyl	*120*		*70 - 130*	*12/13/22 15:25*	*12/14/22 11:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	934		50.3		mg/Kg			12/14/22 17:09	10

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

Lab Sample ID: 880-22625-2
Matrix: Solid
Date Collected: 12/12/22 00:00
Date Received: 12/13/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:22	12/14/22 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:22	12/14/22 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:22	12/14/22 17:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/13/22 13:22	12/14/22 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:22	12/14/22 17:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/13/22 13:22	12/14/22 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/13/22 13:22*	*12/14/22 17:37*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*12/13/22 13:22*	*12/14/22 17:37*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22625-2
Matrix: Solid
Date Collected: 12/12/22 00:00
Date Received: 12/13/22 10:45

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			12/15/22 11:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**92.9**		49.9		mg/Kg			12/14/22 16:09	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		12/13/22 15:25	12/14/22 12:18	1
Diesel Range Organics (Over C10-C28)	**92.9**		49.9		mg/Kg		12/13/22 15:25	12/14/22 12:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/22 15:25	12/14/22 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*12/13/22 15:25*	*12/14/22 12:18*	*1*
o-Terphenyl	*120*		*70 - 130*	*12/13/22 15:25*	*12/14/22 12:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**268**		5.00		mg/Kg			12/14/22 17:28	1

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-22625-3
Matrix: Solid
Date Collected: 12/12/22 00:00
Date Received: 12/13/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/22 15:38	12/15/22 03:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 15:38	12/15/22 03:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 15:38	12/15/22 03:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/13/22 15:38	12/15/22 03:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 15:38	12/15/22 03:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/13/22 15:38	12/15/22 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/13/22 15:38*	*12/15/22 03:49*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/13/22 15:38*	*12/15/22 03:49*	*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			12/15/22 11:38	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			12/14/22 16:09	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		12/13/22 15:25	12/14/22 12:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/22 15:25	12/14/22 12:40	1

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-22625-3
Matrix: Solid
Date Collected: 12/12/22 00:00
Date Received: 12/13/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/22 15:25	12/14/22 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*12/13/22 15:25*	*12/14/22 12:40*	*1*
o-Terphenyl	*115*		*70 - 130*	*12/13/22 15:25*	*12/14/22 12:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**262**		24.9		mg/Kg			12/14/22 17:35	5

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-22625-4
Matrix: Solid
Date Collected: 12/12/22 00:00
Date Received: 12/13/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/13/22 15:38	12/15/22 04:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/13/22 15:38	12/15/22 04:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/13/22 15:38	12/15/22 04:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/13/22 15:38	12/15/22 04:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/13/22 15:38	12/15/22 04:09	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/13/22 15:38	12/15/22 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/13/22 15:38*	*12/15/22 04:09*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/13/22 15:38*	*12/15/22 04:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/15/22 11:38	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			12/14/22 16:09	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		12/13/22 15:25	12/14/22 13:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/22 15:25	12/14/22 13:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/22 15:25	12/14/22 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*12/13/22 15:25*	*12/14/22 13:02*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/13/22 15:25*	*12/14/22 13:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		5.05		mg/Kg			12/14/22 17:42	1

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-6")

Date Collected: 12/12/22 00:00
Date Received: 12/13/22 10:45

Lab Sample ID: 880-22625-5

Matrix: Solid

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		12/13/22 15:38	12/15/22 04:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/13/22 15:38	12/15/22 04:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/13/22 15:38	12/15/22 04:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/13/22 15:38	12/15/22 04:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/13/22 15:38	12/15/22 04:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/13/22 15:38	12/15/22 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/13/22 15:38*	*12/15/22 04:30*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/13/22 15:38*	*12/15/22 04:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/15/22 11:38	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			12/15/22 10:53	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		12/13/22 11:59	12/14/22 22:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/22 11:59	12/14/22 22:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/22 11:59	12/14/22 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*12/13/22 11:59*	*12/14/22 22:09*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*12/13/22 11:59*	*12/14/22 22:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**201**		4.99		mg/Kg			12/14/22 17:48	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-22625-1	S-1 (0-1")	139 S1+	102
880-22625-2	H-1 (0-6")	94	80
880-22625-3	H-2 (0-6")	104	99
880-22625-4	H-3 (0-6")	105	93
880-22625-5	H-4 (0-6")	101	90
880-22640-A-3-C MS	Matrix Spike	124	114
880-22640-A-3-D MSD	Matrix Spike Duplicate	102	118
880-22642-A-11-C MS	Matrix Spike	109	117
880-22642-A-11-D MSD	Matrix Spike Duplicate	121	112
880-22647-A-1-A MS	Matrix Spike	126	108
880-22647-A-1-B MSD	Matrix Spike Duplicate	112	120
LCS 880-41757/1-A	Lab Control Sample	97	113
LCS 880-41758/1-A	Lab Control Sample	106	115
LCS 880-41768/1-A	Lab Control Sample	111	121
LCSD 880-41757/2-A	Lab Control Sample Dup	92	103
LCSD 880-41758/2-A	Lab Control Sample Dup	109	112
LCSD 880-41768/2-A	Lab Control Sample Dup	107	118
MB 880-41757/5-A	Method Blank	89	103
MB 880-41758/5-A	Method Blank	87	100
MB 880-41768/5-A	Method Blank	87	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-22625-1	S-1 (0-1")	121	120
880-22625-2	H-1 (0-6")	128	120
880-22625-3	H-2 (0-6")	120	115
880-22625-4	H-3 (0-6")	107	104
880-22625-5	H-4 (0-6")	125	132 S1+
880-22628-A-1-B MS	Matrix Spike	91	87
880-22628-A-1-C MSD	Matrix Spike Duplicate	91	87
880-22643-A-1-C MS	Matrix Spike	87	81
880-22643-A-1-D MSD	Matrix Spike Duplicate	103	94
LCS 880-41740/2-A	Lab Control Sample	93	101
LCS 880-41766/2-A	Lab Control Sample	110	113
LCSD 880-41740/3-A	Lab Control Sample Dup	93	100
LCSD 880-41766/3-A	Lab Control Sample Dup	99	108
MB 880-41740/1-A	Method Blank	121	132 S1+
MB 880-41766/1-A	Method Blank	119	109

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41757/5-A
Matrix: Solid
Analysis Batch: 41782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:22	12/14/22 11:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:22	12/14/22 11:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:22	12/14/22 11:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/13/22 13:22	12/14/22 11:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:22	12/14/22 11:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/13/22 13:22	12/14/22 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/13/22 13:22*	*12/14/22 11:04*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/13/22 13:22*	*12/14/22 11:04*	*1*

Lab Sample ID: LCS 880-41757/1-A
Matrix: Solid
Analysis Batch: 41782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1122		mg/Kg		112	70 - 130
Toluene	0.100	0.09869		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09533		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09576		mg/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-41757/2-A
Matrix: Solid
Analysis Batch: 41782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41757

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1111		mg/Kg		111	70 - 130	1	35
Toluene	0.100	0.09854		mg/Kg		99	70 - 130	0	35
Ethylbenzene	0.100	0.09261		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1865		mg/Kg		93	70 - 130	4	35
o-Xylene	0.100	0.09177		mg/Kg		92	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-22640-A-3-C MS
Matrix: Solid
Analysis Batch: 41782

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 41757

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.100	0.06898	F1	mg/Kg		69	70 - 130
Toluene	<0.00199	U F1	0.100	0.04945	F1	mg/Kg		49	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22640-A-3-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41782 — **Prep Batch: 41757**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.100	0.04467	F1	mg/Kg		45	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.08979	F1	mg/Kg		45	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.04315	F1	mg/Kg		43	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-22640-A-3-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41782 — **Prep Batch: 41757**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	0.07213		mg/Kg		73	70 - 130	4	35
Toluene	<0.00199	U F1	0.0990	0.04440	F1	mg/Kg		45	70 - 130	11	35
Ethylbenzene	<0.00199	U F1	0.0990	0.03397	F1	mg/Kg		34	70 - 130	27	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.06436	F1	mg/Kg		33	70 - 130	33	35
o-Xylene	<0.00199	U F1	0.0990	0.03139	F1	mg/Kg		32	70 - 130	32	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: MB 880-41758/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41864 — **Prep Batch: 41758**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:34	12/15/22 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:34	12/15/22 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:34	12/15/22 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/13/22 13:34	12/15/22 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 13:34	12/15/22 11:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/13/22 13:34	12/15/22 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/13/22 13:34*	*12/15/22 11:16*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/13/22 13:34*	*12/15/22 11:16*	*1*

Lab Sample ID: LCS 880-41758/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41864 — **Prep Batch: 41758**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1062		mg/Kg		106	70 - 130
Toluene	0.100	0.09297		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09548		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1954		mg/Kg		98	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-41758/1-A
Matrix: Solid
Analysis Batch: 41864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41758

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09711		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: LCSD 880-41758/2-A
Matrix: Solid
Analysis Batch: 41864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41758

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1033		mg/Kg		103	70 - 130	3	35
Toluene			0.100	0.09171		mg/Kg		92	70 - 130	1	35
Ethylbenzene			0.100	0.09799		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2014		mg/Kg		101	70 - 130	3	35
o-Xylene			0.100	0.1001		mg/Kg		100	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-22642-A-11-C MS
Matrix: Solid
Analysis Batch: 41864

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 41758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.08340		mg/Kg		83	70 - 130		
Toluene	<0.00201	U F1	0.100	0.06861	F1	mg/Kg		68	70 - 130		
Ethylbenzene	<0.00201	U F1	0.100	0.06662	F1	mg/Kg		66	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1326	F1	mg/Kg		66	70 - 130		
o-Xylene	<0.00201	U F1	0.100	0.06586	F1	mg/Kg		66	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: 880-22642-A-11-D MSD
Matrix: Solid
Analysis Batch: 41864

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 41758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.09680		mg/Kg		98	70 - 130	15	35
Toluene	<0.00201	U F1	0.0990	0.08796		mg/Kg		89	70 - 130	25	35
Ethylbenzene	<0.00201	U F1	0.0990	0.08849		mg/Kg		89	70 - 130	28	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1865		mg/Kg		94	70 - 130	34	35
o-Xylene	<0.00201	U F1	0.0990	0.09280		mg/Kg		94	70 - 130	34	35

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22642-A-11-D MSD
Matrix: Solid
Analysis Batch: 41864

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 41758

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: MB 880-41768/5-A
Matrix: Solid
Analysis Batch: 41782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/22 15:38	12/14/22 22:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/22 15:38	12/14/22 22:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/22 15:38	12/14/22 22:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/13/22 15:38	12/14/22 22:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/22 15:38	12/14/22 22:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/13/22 15:38	12/14/22 22:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/13/22 15:38	12/14/22 22:00	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/13/22 15:38	12/14/22 22:00	1

Lab Sample ID: LCS 880-41768/1-A
Matrix: Solid
Analysis Batch: 41782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41768

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1223		mg/Kg		122	70 - 130		
Toluene			0.100	0.1041		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.1083		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2252		mg/Kg		113	70 - 130		
o-Xylene			0.100	0.1123		mg/Kg		112	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: LCSD 880-41768/2-A
Matrix: Solid
Analysis Batch: 41782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41768

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1193		mg/Kg		119	70 - 130	2	35
Toluene			0.100	0.1035		mg/Kg		103	70 - 130	1	35
Ethylbenzene			0.100	0.1066		mg/Kg		107	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2222		mg/Kg		111	70 - 130	1	35
o-Xylene			0.100	0.1107		mg/Kg		111	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-41768/2-A
Matrix: Solid
Analysis Batch: 41782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41768

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

Lab Sample ID: 880-22647-A-1-A MS
Matrix: Solid
Analysis Batch: 41782

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 41768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.06989		mg/Kg		70	70 - 130
Toluene	<0.00202	U F1	0.100	0.06293	F1	mg/Kg		63	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.07079		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1	0.201	0.1392	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00202	U	0.100	0.07002		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-22647-A-1-B MSD
Matrix: Solid
Analysis Batch: 41782

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 41768

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.09456		mg/Kg		96	70 - 130	30	35
Toluene	<0.00202	U F1	0.0990	0.07476		mg/Kg		76	70 - 130	17	35
Ethylbenzene	<0.00202	U	0.0990	0.07353		mg/Kg		74	70 - 130	4	35
m-Xylene & p-Xylene	<0.00403	U F1	0.198	0.1464		mg/Kg		74	70 - 130	5	35
o-Xylene	<0.00202	U	0.0990	0.07219		mg/Kg		73	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

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

Lab Sample ID: MB 880-41740/1-A
Matrix: Solid
Analysis Batch: 41776

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41740

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		12/13/22 11:59	12/14/22 19:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/22 11:59	12/14/22 19:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/22 11:59	12/14/22 19:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	12/13/22 11:59	12/14/22 19:38	1
o-Terphenyl	132	S1+	70 - 130	12/13/22 11:59	12/14/22 19:38	1

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-41740/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41776 — **Prep Batch: 41740**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	906.0		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	841.5		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: LCSD 880-41740/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41776 — **Prep Batch: 41740**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	909.1		mg/Kg		91	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	840.0		mg/Kg		84	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-22628-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41776 — **Prep Batch: 41740**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	980.4		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1009		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: 880-22628-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41776 — **Prep Batch: 41740**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	955.6		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1009		mg/Kg		99	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22628-A-1-C MSD
Matrix: Solid
Analysis Batch: 41776

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 41740

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	87		70 - 130

Lab Sample ID: MB 880-41766/1-A
Matrix: Solid
Analysis Batch: 41774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41766

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		12/13/22 15:25	12/14/22 08:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/22 15:25	12/14/22 08:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/22 15:25	12/14/22 08:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	12/13/22 15:25	12/14/22 08:16	1
o-Terphenyl	109		70 - 130	12/13/22 15:25	12/14/22 08:16	1

Lab Sample ID: LCS 880-41766/2-A
Matrix: Solid
Analysis Batch: 41774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41766

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	870.8		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	786.9		mg/Kg		79	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-41766/3-A
Matrix: Solid
Analysis Batch: 41774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41766

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	867.5		mg/Kg		87	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	744.5		mg/Kg		74	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	108		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22643-A-1-C MS
Matrix: Solid
Analysis Batch: 41774

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 41766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	895.1		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	852.8		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: 880-22643-A-1-D MSD
Matrix: Solid
Analysis Batch: 41774

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 41766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1032		mg/Kg		104	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	996.3		mg/Kg		97	70 - 130	16	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41743/1-A
Matrix: Solid
Analysis Batch: 41857

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/14/22 16:49	1

Lab Sample ID: LCS 880-41743/2-A
Matrix: Solid
Analysis Batch: 41857

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-41743/3-A
Matrix: Solid
Analysis Batch: 41857

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	244.6		mg/Kg		98	90 - 110	1	20

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-22625-1 MS
Matrix: Solid
Analysis Batch: 41857

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	934		2520	3468		mg/Kg		101	90 - 110		

Lab Sample ID: 880-22625-1 MSD
Matrix: Solid
Analysis Batch: 41857

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	934		2520	3438		mg/Kg		100	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 41757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-1	S-1 (0-1")	Total/NA	Solid	5035	
880-22625-2	H-1 (0-6")	Total/NA	Solid	5035	
MB 880-41757/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41757/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41757/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22640-A-3-C MS	Matrix Spike	Total/NA	Solid	5035	
880-22640-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 41758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-1	S-1 (0-1")	Total/NA	Solid	5035	
MB 880-41758/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41758/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41758/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22642-A-11-C MS	Matrix Spike	Total/NA	Solid	5035	
880-22642-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 41768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-3	H-2 (0-6")	Total/NA	Solid	5035	
880-22625-4	H-3 (0-6")	Total/NA	Solid	5035	
880-22625-5	H-4 (0-6")	Total/NA	Solid	5035	
MB 880-41768/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41768/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41768/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22647-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-22647-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 41782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-1	S-1 (0-1")	Total/NA	Solid	8021B	41757
880-22625-2	H-1 (0-6")	Total/NA	Solid	8021B	41757
880-22625-3	H-2 (0-6")	Total/NA	Solid	8021B	41768
880-22625-4	H-3 (0-6")	Total/NA	Solid	8021B	41768
880-22625-5	H-4 (0-6")	Total/NA	Solid	8021B	41768
MB 880-41757/5-A	Method Blank	Total/NA	Solid	8021B	41757
MB 880-41768/5-A	Method Blank	Total/NA	Solid	8021B	41768
LCS 880-41757/1-A	Lab Control Sample	Total/NA	Solid	8021B	41757
LCS 880-41768/1-A	Lab Control Sample	Total/NA	Solid	8021B	41768
LCSD 880-41757/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41757
LCSD 880-41768/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41768
880-22640-A-3-C MS	Matrix Spike	Total/NA	Solid	8021B	41757
880-22640-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	41757
880-22647-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	41768
880-22647-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	41768

Analysis Batch: 41864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-1	S-1 (0-1")	Total/NA	Solid	8021B	41758
MB 880-41758/5-A	Method Blank	Total/NA	Solid	8021B	41758
LCS 880-41758/1-A	Lab Control Sample	Total/NA	Solid	8021B	41758

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 41864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-41758/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41758
880-22642-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	41758
880-22642-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	41758

Analysis Batch: 41911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-1	S-1 (0-1")	Total/NA	Solid	Total BTEX	
880-22625-2	H-1 (0-6")	Total/NA	Solid	Total BTEX	
880-22625-3	H-2 (0-6")	Total/NA	Solid	Total BTEX	
880-22625-4	H-3 (0-6")	Total/NA	Solid	Total BTEX	
880-22625-5	H-4 (0-6")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-5	H-4 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-41740/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41740/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41740/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22628-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-22628-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 41766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-1	S-1 (0-1")	Total/NA	Solid	8015NM Prep	
880-22625-2	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-22625-3	H-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-22625-4	H-3 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-41766/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41766/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41766/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22643-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-22643-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-1	S-1 (0-1")	Total/NA	Solid	8015B NM	41766
880-22625-2	H-1 (0-6")	Total/NA	Solid	8015B NM	41766
880-22625-3	H-2 (0-6")	Total/NA	Solid	8015B NM	41766
880-22625-4	H-3 (0-6")	Total/NA	Solid	8015B NM	41766
MB 880-41766/1-A	Method Blank	Total/NA	Solid	8015B NM	41766
LCS 880-41766/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41766
LCSD 880-41766/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41766
880-22643-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	41766
880-22643-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41766

Analysis Batch: 41776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-5	H-4 (0-6")	Total/NA	Solid	8015B NM	41740
MB 880-41740/1-A	Method Blank	Total/NA	Solid	8015B NM	41740

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 41776 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-41740/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41740
LCSD 880-41740/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41740
880-22628-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	41740
880-22628-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41740

Analysis Batch: 41852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-1	S-1 (0-1")	Total/NA	Solid	8015 NM	
880-22625-2	H-1 (0-6")	Total/NA	Solid	8015 NM	
880-22625-3	H-2 (0-6")	Total/NA	Solid	8015 NM	
880-22625-4	H-3 (0-6")	Total/NA	Solid	8015 NM	
880-22625-5	H-4 (0-6")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-1	S-1 (0-1")	Soluble	Solid	DI Leach	
880-22625-2	H-1 (0-6")	Soluble	Solid	DI Leach	
880-22625-3	H-2 (0-6")	Soluble	Solid	DI Leach	
880-22625-4	H-3 (0-6")	Soluble	Solid	DI Leach	
880-22625-5	H-4 (0-6")	Soluble	Solid	DI Leach	
MB 880-41743/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41743/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41743/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22625-1 MS	S-1 (0-1")	Soluble	Solid	DI Leach	
880-22625-1 MSD	S-1 (0-1")	Soluble	Solid	DI Leach	

Analysis Batch: 41857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22625-1	S-1 (0-1")	Soluble	Solid	300.0	41743
880-22625-2	H-1 (0-6")	Soluble	Solid	300.0	41743
880-22625-3	H-2 (0-6")	Soluble	Solid	300.0	41743
880-22625-4	H-3 (0-6")	Soluble	Solid	300.0	41743
880-22625-5	H-4 (0-6")	Soluble	Solid	300.0	41743
MB 880-41743/1-A	Method Blank	Soluble	Solid	300.0	41743
LCS 880-41743/2-A	Lab Control Sample	Soluble	Solid	300.0	41743
LCSD 880-41743/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41743
880-22625-1 MS	S-1 (0-1")	Soluble	Solid	300.0	41743
880-22625-1 MSD	S-1 (0-1")	Soluble	Solid	300.0	41743

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-22625-1

Date Collected: 12/12/22 00:00
Matrix: Solid
Date Received: 12/13/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	41757	12/13/22 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41782	12/14/22 17:57	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	41758	12/13/22 13:34	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	41864	12/15/22 14:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41911	12/15/22 11:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			41852	12/14/22 16:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41766	12/13/22 15:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41774	12/14/22 11:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41743	12/13/22 12:38	KS	EET MID
Soluble	Analysis	300.0		10			41857	12/14/22 17:09	CH	EET MID

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

Lab Sample ID: 880-22625-2

Date Collected: 12/12/22 00:00
Matrix: Solid
Date Received: 12/13/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	41757	12/13/22 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41782	12/14/22 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41911	12/15/22 11:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			41852	12/14/22 16:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41766	12/13/22 15:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41774	12/14/22 12:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41743	12/13/22 12:38	KS	EET MID
Soluble	Analysis	300.0		1			41857	12/14/22 17:28	CH	EET MID

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-22625-3

Date Collected: 12/12/22 00:00
Matrix: Solid
Date Received: 12/13/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	41768	12/13/22 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41782	12/15/22 03:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41911	12/15/22 11:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			41852	12/14/22 16:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41766	12/13/22 15:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41774	12/14/22 12:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41743	12/13/22 12:38	KS	EET MID
Soluble	Analysis	300.0		5			41857	12/14/22 17:35	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-22625-4
Matrix: Solid
Date Collected: 12/12/22 00:00
Date Received: 12/13/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	41768	12/13/22 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41782	12/15/22 04:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41911	12/15/22 11:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			41852	12/14/22 16:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41766	12/13/22 15:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41774	12/14/22 13:02	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41743	12/13/22 12:38	KS	EET MID
Soluble	Analysis	300.0		1			41857	12/14/22 17:42	CH	EET MID

Client Sample ID: H-4 (0-6")

Lab Sample ID: 880-22625-5
Matrix: Solid
Date Collected: 12/12/22 00:00
Date Received: 12/13/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	41768	12/13/22 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41782	12/15/22 04:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41911	12/15/22 11:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			41852	12/15/22 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41740	12/13/22 11:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41776	12/14/22 22:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41743	12/13/22 12:38	KS	EET MID
Soluble	Analysis	300.0		1			41857	12/14/22 17:48	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-22625-1
Project/Site: Diamondback 22 St, Com #5H (11.23.22)
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	OII Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
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	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Diamondback 22 St, Com #5H (11.23.22)

Job ID: 880-22625-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22625-1	S-1 (0-1")	Solid	12/12/22 00:00	12/13/22 10:45
880-22625-2	H-1 (0-6")	Solid	12/12/22 00:00	12/13/22 10:45
880-22625-3	H-2 (0-6")	Solid	12/12/22 00:00	12/13/22 10:45
880-22625-4	H-3 (0-6")	Solid	12/12/22 00:00	12/13/22 10:45
880-22625-5	H-4 (0-6")	Solid	12/12/22 00:00	12/13/22 10:45

Work Order No: 22625

Page 1 of 1

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving, NM 88258
Phone	432-813-6823	Email	jacqui.harris@conocophillips.com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Diamondback 22 St, Com #5H (11.23 22)	Turn Around	
Project Number	1204	☐ Routine	☑ Rush
Project Location	Eddy County, New Mexico	Due Date	48 Hrs
Sampler's Name	GPJ		
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice.	(Yes) No
Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	-.30
Sample Custody Seals	Yes No (N/A)	Temperature Reading	4.3
Total Containers.		Corrected Temperature	4.0

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
S-1 (0-1")	12/12/2022		X		G	1		X	X	X
H-1 (0-6")	12/12/2022		X		G	1		X	X	X
H-2 (0-6")	12/12/2022		X		G	1		X	X	X
H-3 (0-6")	12/12/2022		X		G	1		X	X	X
H-4 (0-6")	12/12/2022		X		G	1		X	X	X

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2SO_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

4002

880-22625 Chain of Custody

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	12/13/22 1045		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-22625-1
SDG Number: Eddy County, New Mexico

Login Number: 22625
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 2/15/2023 7:57:58 AM

JOB DESCRIPTION

Diamondback 22 St Com #5H (11.23.22)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-24617-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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
2/15/2023 7:57:58 AM

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

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Laboratory Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
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
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Job ID: 880-24617-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-24617-1

Receipt
The samples were received on 2/13/2023 8:40 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 2.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (1.5') (880-24617-1), CS-2 (1.5') (880-24617-2), CS-3 (1.5') (880-24617-3), SW-1 (1.5') (880-24617-4), SW-2 (1.5') (880-24617-5), SW-3 (1.5') (880-24617-6) and SW-4 (1.5') (880-24617-7).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-2 (1.5') (880-24617-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-46101 and analytical batch 880-46160 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-24617-1
Matrix: Solid
Date Collected: 02/09/23 00:00
Date Received: 02/13/23 08:40

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		02/13/23 11:50	02/14/23 00:47	1
Toluene	**0.00275**		0.00199		mg/Kg		02/13/23 11:50	02/14/23 00:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 00:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/23 11:50	02/14/23 00:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 00:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/23 11:50	02/14/23 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/13/23 11:50*	*02/14/23 00:47*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*02/13/23 11:50*	*02/14/23 00:47*	*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			02/14/23 11:13	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			02/15/23 08:41	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		02/13/23 10:08	02/14/23 21:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/23 10:08	02/14/23 21:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/23 10:08	02/14/23 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*02/13/23 10:08*	*02/14/23 21:42*	*1*
o-Terphenyl	*88*		*70 - 130*	*02/13/23 10:08*	*02/14/23 21:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**407**		4.99		mg/Kg			02/13/23 20:52	1

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-24617-2
Matrix: Solid
Date Collected: 02/09/23 00:00
Date Received: 02/13/23 08:40

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		02/13/23 11:50	02/14/23 01:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 01:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 01:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/23 11:50	02/14/23 01:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 01:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/23 11:50	02/14/23 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*02/13/23 11:50*	*02/14/23 01:08*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*02/13/23 11:50*	*02/14/23 01:08*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-24617-2
Matrix: Solid
Date Collected: 02/09/23 00:00
Date Received: 02/13/23 08:40

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			02/14/23 11:13	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			02/15/23 08:41	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		02/13/23 10:08	02/14/23 22:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/23 10:08	02/14/23 22:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/23 10:08	02/14/23 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*02/13/23 10:08*	*02/14/23 22:47*	*1*
o-Terphenyl	*79*		*70 - 130*	*02/13/23 10:08*	*02/14/23 22:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**332**		5.01		mg/Kg			02/13/23 21:06	1

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-24617-3
Matrix: Solid
Date Collected: 02/09/23 00:00
Date Received: 02/13/23 08:40

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		02/13/23 11:50	02/14/23 01:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/23 11:50	02/14/23 01:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/23 11:50	02/14/23 01:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/13/23 11:50	02/14/23 01:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/23 11:50	02/14/23 01:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/13/23 11:50	02/14/23 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*02/13/23 11:50*	*02/14/23 01:28*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/13/23 11:50*	*02/14/23 01:28*	*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			02/14/23 11:13	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			02/15/23 08:41	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		02/13/23 10:08	02/14/23 23:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/23 10:08	02/14/23 23:09	1

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-24617-3
Matrix: Solid
Date Collected: 02/09/23 00:00
Date Received: 02/13/23 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/23 10:08	02/14/23 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*02/13/23 10:08*	*02/14/23 23:09*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/13/23 10:08*	*02/14/23 23:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.3**		5.00		mg/Kg			02/13/23 21:11	1

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-24617-4
Matrix: Solid
Date Collected: 02/09/23 00:00
Date Received: 02/13/23 08:40

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		02/13/23 11:50	02/14/23 01:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/13/23 11:50	02/14/23 01:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/13/23 11:50	02/14/23 01:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/13/23 11:50	02/14/23 01:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/13/23 11:50	02/14/23 01:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/13/23 11:50	02/14/23 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*02/13/23 11:50*	*02/14/23 01:49*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/13/23 11:50*	*02/14/23 01:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/14/23 11:13	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			02/15/23 08:41	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		02/13/23 10:08	02/14/23 23:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/23 10:08	02/14/23 23:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/23 10:08	02/14/23 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*02/13/23 10:08*	*02/14/23 23:31*	*1*
o-Terphenyl	*79*		*70 - 130*	*02/13/23 10:08*	*02/14/23 23:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**390**		5.02		mg/Kg			02/13/23 21:16	1

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-24617-5

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

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		02/13/23 11:50	02/14/23 02:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 02:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 02:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/23 11:50	02/14/23 02:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 02:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/23 11:50	02/14/23 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*02/13/23 11:50*	*02/14/23 02:09*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/13/23 11:50*	*02/14/23 02:09*	*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			02/14/23 11:13	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			02/15/23 08:41	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		02/13/23 10:08	02/14/23 23:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/13/23 10:08	02/14/23 23:53	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/23 10:08	02/14/23 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*02/13/23 10:08*	*02/14/23 23:53*	*1*
o-Terphenyl	*77*		*70 - 130*	*02/13/23 10:08*	*02/14/23 23:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**		5.01		mg/Kg			02/13/23 21:20	1

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-24617-6

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

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		02/13/23 11:50	02/14/23 02:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 02:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 02:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/23 11:50	02/14/23 02:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/23 11:50	02/14/23 02:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/23 11:50	02/14/23 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*02/13/23 11:50*	*02/14/23 02:29*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/13/23 11:50*	*02/14/23 02:29*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-24617-6
Matrix: Solid
Date Collected: 02/09/23 00:00
Date Received: 02/13/23 08:40

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			02/14/23 11:13	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			02/15/23 08:41	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		02/13/23 10:08	02/15/23 00:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/23 10:08	02/15/23 00:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/23 10:08	02/15/23 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*02/13/23 10:08*	*02/15/23 00:16*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/13/23 10:08*	*02/15/23 00:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.0**		5.00		mg/Kg			02/14/23 10:04	1

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-24617-7
Matrix: Solid
Date Collected: 02/09/23 00:00
Date Received: 02/13/23 08:40

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		02/13/23 11:50	02/14/23 02:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/23 11:50	02/14/23 02:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/23 11:50	02/14/23 02:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/13/23 11:50	02/14/23 02:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/23 11:50	02/14/23 02:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/13/23 11:50	02/14/23 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*02/13/23 11:50*	*02/14/23 02:50*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/13/23 11:50*	*02/14/23 02:50*	*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			02/14/23 11:13	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			02/15/23 08:41	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		02/13/23 10:08	02/15/23 00:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/23 10:08	02/15/23 00:38	1

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (1.5')

Date Collected: 02/09/23 00:00
Date Received: 02/13/23 08:40

Lab Sample ID: 880-24617-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/23 10:08	02/15/23 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*02/13/23 10:08*	*02/15/23 00:38*	*1*
o-Terphenyl	*90*		*70 - 130*	*02/13/23 10:08*	*02/15/23 00:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**432**	**F1**	5.00		mg/Kg			02/13/23 21:30	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-24617-1	CS-1 (1.5')	120	110
880-24617-2	CS-2 (1.5')	130	112
880-24617-3	CS-3 (1.5')	122	109
880-24617-4	SW-1 (1.5')	125	111
880-24617-5	SW-2 (1.5')	133 S1+	109
880-24617-6	SW-3 (1.5')	127	109
880-24617-7	SW-4 (1.5')	123	111
880-24618-A-21-C MS	Matrix Spike	109	106
880-24618-A-21-D MSD	Matrix Spike Duplicate	112	110
LCS 880-46085/1-A	Lab Control Sample	107	108
LCSD 880-46085/2-A	Lab Control Sample Dup	107	108
MB 880-46013/5-A	Method Blank	112	105
MB 880-46085/5-A	Method Blank	110	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24617-1	CS-1 (1.5')	78	88
880-24617-1 MS	CS-1 (1.5')	96	95
880-24617-1 MSD	CS-1 (1.5')	88	87
880-24617-2	CS-2 (1.5')	73	79
880-24617-3	CS-3 (1.5')	75	81
880-24617-4	SW-1 (1.5')	72	79
880-24617-5	SW-2 (1.5')	72	77
880-24617-6	SW-3 (1.5')	73	81
880-24617-7	SW-4 (1.5')	83	90
LCS 880-46105/2-A	Lab Control Sample	86	90
LCSD 880-46105/3-A	Lab Control Sample Dup	88	94
MB 880-46105/1-A	Method Blank	92	101

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46013/5-A
Matrix: Solid
Analysis Batch: 46089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:48	02/13/23 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:48	02/13/23 12:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:48	02/13/23 12:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 14:48	02/13/23 12:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:48	02/13/23 12:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 14:48	02/13/23 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*02/10/23 14:48*	*02/13/23 12:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/10/23 14:48*	*02/13/23 12:02*	*1*

Lab Sample ID: MB 880-46085/5-A
Matrix: Solid
Analysis Batch: 46089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/23 11:50	02/13/23 23:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/23 11:50	02/13/23 23:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/23 11:50	02/13/23 23:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/13/23 11:50	02/13/23 23:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/23 11:50	02/13/23 23:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/13/23 11:50	02/13/23 23:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*02/13/23 11:50*	*02/13/23 23:38*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/13/23 11:50*	*02/13/23 23:38*	*1*

Lab Sample ID: LCS 880-46085/1-A
Matrix: Solid
Analysis Batch: 46089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46085

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09515		mg/Kg		95	70 - 130		
Toluene			0.100	0.08997		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09006		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.1873		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.09144		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-46085/2-A
Matrix: Solid
Analysis Batch: 46089

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46085

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09442		mg/Kg		94	70 - 130	1	35

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-46085/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46089 — **Prep Batch: 46085**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09166		mg/Kg		92	70 - 130	2	35
Ethylbenzene			0.100	0.09050		mg/Kg		90	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1904		mg/Kg		95	70 - 130	2	35
o-Xylene			0.100	0.09389		mg/Kg		94	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-24618-A-21-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46089 — **Prep Batch: 46085**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08589		mg/Kg		86	70 - 130
Toluene	<0.00201	U	0.100	0.08314		mg/Kg		83	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.08043		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1684		mg/Kg		84	70 - 130
o-Xylene	<0.00201	U	0.100	0.08165		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-24618-A-21-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46089 — **Prep Batch: 46085**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.08721		mg/Kg		88	70 - 130	2	35
Toluene	<0.00201	U	0.0990	0.08413		mg/Kg		85	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0990	0.08051		mg/Kg		81	70 - 130	0	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1686		mg/Kg		85	70 - 130	0	35
o-Xylene	<0.00201	U	0.0990	0.08128		mg/Kg		82	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

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

Lab Sample ID: MB 880-46105/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46267 — **Prep Batch: 46105**

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		02/13/23 10:08	02/14/23 20:36	1

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-46105/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46267 — **Prep Batch: 46105**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/23 10:08	02/14/23 20:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/23 10:08	02/14/23 20:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*02/13/23 10:08*	*02/14/23 20:36*	*1*
o-Terphenyl	*101*		*70 - 130*	*02/13/23 10:08*	*02/14/23 20:36*	*1*

Lab Sample ID: LCS 880-46105/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46267 — **Prep Batch: 46105**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	870.3		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	850.0		mg/Kg		85	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-46105/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46267 — **Prep Batch: 46105**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	812.0		mg/Kg		81	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	829.9		mg/Kg		83	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-24617-1 MS — **Client Sample ID: CS-1 (1.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46267 — **Prep Batch: 46105**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1048		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1136		mg/Kg		111	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-24617-1 MSD — **Client Sample ID: CS-1 (1.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46267 — **Prep Batch: 46105**

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	1000	973.2		mg/Kg		93	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1036		mg/Kg		102	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46101/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/13/23 20:11	1

Lab Sample ID: LCS 880-46101/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.2		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-46101/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46160

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.0		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-24617-7 MS — **Client Sample ID: SW-4 (1.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	432	F1	250	614.9	F1	mg/Kg		73	90 - 110

Lab Sample ID: 880-24617-7 MSD — **Client Sample ID: SW-4 (1.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	432	F1	250	608.8	F1	mg/Kg		71	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 46013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46013/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 46085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24617-1	CS-1 (1.5')	Total/NA	Solid	5035	
880-24617-2	CS-2 (1.5')	Total/NA	Solid	5035	
880-24617-3	CS-3 (1.5')	Total/NA	Solid	5035	
880-24617-4	SW-1 (1.5')	Total/NA	Solid	5035	
880-24617-5	SW-2 (1.5')	Total/NA	Solid	5035	
880-24617-6	SW-3 (1.5')	Total/NA	Solid	5035	
880-24617-7	SW-4 (1.5')	Total/NA	Solid	5035	
MB 880-46085/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46085/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46085/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24618-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
880-24618-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24617-1	CS-1 (1.5')	Total/NA	Solid	8021B	46085
880-24617-2	CS-2 (1.5')	Total/NA	Solid	8021B	46085
880-24617-3	CS-3 (1.5')	Total/NA	Solid	8021B	46085
880-24617-4	SW-1 (1.5')	Total/NA	Solid	8021B	46085
880-24617-5	SW-2 (1.5')	Total/NA	Solid	8021B	46085
880-24617-6	SW-3 (1.5')	Total/NA	Solid	8021B	46085
880-24617-7	SW-4 (1.5')	Total/NA	Solid	8021B	46085
MB 880-46013/5-A	Method Blank	Total/NA	Solid	8021B	46013
MB 880-46085/5-A	Method Blank	Total/NA	Solid	8021B	46085
LCS 880-46085/1-A	Lab Control Sample	Total/NA	Solid	8021B	46085
LCSD 880-46085/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46085
880-24618-A-21-C MS	Matrix Spike	Total/NA	Solid	8021B	46085
880-24618-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46085

Analysis Batch: 46297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24617-1	CS-1 (1.5')	Total/NA	Solid	Total BTEX	
880-24617-2	CS-2 (1.5')	Total/NA	Solid	Total BTEX	
880-24617-3	CS-3 (1.5')	Total/NA	Solid	Total BTEX	
880-24617-4	SW-1 (1.5')	Total/NA	Solid	Total BTEX	
880-24617-5	SW-2 (1.5')	Total/NA	Solid	Total BTEX	
880-24617-6	SW-3 (1.5')	Total/NA	Solid	Total BTEX	
880-24617-7	SW-4 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 46105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24617-1	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-24617-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-24617-3	CS-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-24617-4	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 46105 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24617-5	SW-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-24617-6	SW-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-24617-7	SW-4 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-46105/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46105/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24617-1 MS	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-24617-1 MSD	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24617-1	CS-1 (1.5')	Total/NA	Solid	8015B NM	46105
880-24617-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	46105
880-24617-3	CS-3 (1.5')	Total/NA	Solid	8015B NM	46105
880-24617-4	SW-1 (1.5')	Total/NA	Solid	8015B NM	46105
880-24617-5	SW-2 (1.5')	Total/NA	Solid	8015B NM	46105
880-24617-6	SW-3 (1.5')	Total/NA	Solid	8015B NM	46105
880-24617-7	SW-4 (1.5')	Total/NA	Solid	8015B NM	46105
MB 880-46105/1-A	Method Blank	Total/NA	Solid	8015B NM	46105
LCS 880-46105/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46105
LCSD 880-46105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46105
880-24617-1 MS	CS-1 (1.5')	Total/NA	Solid	8015B NM	46105
880-24617-1 MSD	CS-1 (1.5')	Total/NA	Solid	8015B NM	46105

Analysis Batch: 46362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24617-1	CS-1 (1.5')	Total/NA	Solid	8015 NM	
880-24617-2	CS-2 (1.5')	Total/NA	Solid	8015 NM	
880-24617-3	CS-3 (1.5')	Total/NA	Solid	8015 NM	
880-24617-4	SW-1 (1.5')	Total/NA	Solid	8015 NM	
880-24617-5	SW-2 (1.5')	Total/NA	Solid	8015 NM	
880-24617-6	SW-3 (1.5')	Total/NA	Solid	8015 NM	
880-24617-7	SW-4 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24617-1	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-24617-2	CS-2 (1.5')	Soluble	Solid	DI Leach	
880-24617-3	CS-3 (1.5')	Soluble	Solid	DI Leach	
880-24617-4	SW-1 (1.5')	Soluble	Solid	DI Leach	
880-24617-5	SW-2 (1.5')	Soluble	Solid	DI Leach	
880-24617-6	SW-3 (1.5')	Soluble	Solid	DI Leach	
880-24617-7	SW-4 (1.5')	Soluble	Solid	DI Leach	
MB 880-46101/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46101/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46101/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24617-7 MS	SW-4 (1.5')	Soluble	Solid	DI Leach	
880-24617-7 MSD	SW-4 (1.5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Job ID: 880-24617-1
Project/Site: Diamondback 22 St Com #5H (11.23.22)
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 46160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24617-1	CS-1 (1.5')	Soluble	Solid	300.0	46101
880-24617-2	CS-2 (1.5')	Soluble	Solid	300.0	46101
880-24617-3	CS-3 (1.5')	Soluble	Solid	300.0	46101
880-24617-4	SW-1 (1.5')	Soluble	Solid	300.0	46101
880-24617-5	SW-2 (1.5')	Soluble	Solid	300.0	46101
880-24617-6	SW-3 (1.5')	Soluble	Solid	300.0	46101
880-24617-7	SW-4 (1.5')	Soluble	Solid	300.0	46101
MB 880-46101/1-A	Method Blank	Soluble	Solid	300.0	46101
LCS 880-46101/2-A	Lab Control Sample	Soluble	Solid	300.0	46101
LCSD 880-46101/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46101
880-24617-7 MS	SW-4 (1.5')	Soluble	Solid	300.0	46101
880-24617-7 MSD	SW-4 (1.5')	Soluble	Solid	300.0	46101

Lab Chronicle

Client: Carmona Resources
Job ID: 880-24617-1
Project/Site: Diamondback 22 St Com #5H (11.23.22)
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-24617-1

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

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	46085	02/13/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46089	02/14/23 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46297	02/14/23 11:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			46362	02/15/23 08:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46105	02/13/23 10:08	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46267	02/14/23 21:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46101	02/13/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1			46160	02/13/23 20:52	CH	EET MID

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-24617-2

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

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	46085	02/13/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46089	02/14/23 01:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46297	02/14/23 11:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			46362	02/15/23 08:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46105	02/13/23 10:08	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46267	02/14/23 22:47	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46101	02/13/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1			46160	02/13/23 21:06	CH	EET MID

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-24617-3

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

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	46085	02/13/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46089	02/14/23 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46297	02/14/23 11:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			46362	02/15/23 08:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46105	02/13/23 10:08	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46267	02/14/23 23:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46101	02/13/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1			46160	02/13/23 21:11	CH	EET MID

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-24617-4

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

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	46085	02/13/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46089	02/14/23 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46297	02/14/23 11:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Job ID: 880-24617-1
Project/Site: Diamondback 22 St Com #5H (11.23.22)
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-24617-4

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

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			46362	02/15/23 08:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46105	02/13/23 10:08	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46267	02/14/23 23:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46101	02/13/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1			46160	02/13/23 21:16	CH	EET MID

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-24617-5

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

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	46085	02/13/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46089	02/14/23 02:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46297	02/14/23 11:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			46362	02/15/23 08:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46105	02/13/23 10:08	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46267	02/14/23 23:53	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46101	02/13/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1			46160	02/13/23 21:20	CH	EET MID

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-24617-6

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

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	46085	02/13/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46089	02/14/23 02:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46297	02/14/23 11:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			46362	02/15/23 08:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46105	02/13/23 10:08	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46267	02/15/23 00:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46101	02/13/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1			46160	02/14/23 10:04	CH	EET MID

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-24617-7

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

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	46085	02/13/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46089	02/14/23 02:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46297	02/14/23 11:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			46362	02/15/23 08:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46105	02/13/23 10:08	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46267	02/15/23 00:38	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Job ID: 880-24617-1
Project/Site: Diamondback 22 St Com #5H (11.23.22)
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (1.5')
Lab Sample ID: 880-24617-7

Date Collected: 02/09/23 00:00
Matrix: Solid
Date Received: 02/13/23 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	46101	02/13/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1			46160	02/13/23 21:30	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-24617-1
Project/Site: Diamondback 22 St Com #5H (11.23.22)
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	OII Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Diamondback 22 St Com #5H (11.23.22)

Job ID: 880-24617-1
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 St Com #5H (11.23.22)

Job ID: 880-24617-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24617-1	CS-1 (1.5')	Solid	02/09/23 00:00	02/13/23 08:40
880-24617-2	CS-2 (1.5')	Solid	02/09/23 00:00	02/13/23 08:40
880-24617-3	CS-3 (1.5')	Solid	02/09/23 00:00	02/13/23 08:40
880-24617-4	SW-1 (1.5')	Solid	02/09/23 00:00	02/13/23 08:40
880-24617-5	SW-2 (1.5')	Solid	02/09/23 00:00	02/13/23 08:40
880-24617-6	SW-3 (1.5')	Solid	02/09/23 00:00	02/13/23 08:40
880-24617-7	SW-4 (1.5')	Solid	02/09/23 00:00	02/13/23 08:40

Work Order No: 24617

Page 1 of 1

Project Manager	Conner Moehring	Bill to: (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City State ZIP	Midland, TX 79701	City, State ZIP	Loving, NM 88258
Phone:	432-813-6823 Email		jacqui.harris@conocophillips.com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Diamondback 22 St Com #5H (11 23.22)	Turn Around	
Project Number	1204	☐ Routine	☑ Rush
Project Location	Eddy County, New Mexico	Due Date	24 Hrs
Sampler's Name	MM		
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice	Yes No
Received Intact	Yes No	Thermometer ID	IR6
Cooler Custody Seals	Yes No N/A	Correction Factor	-.30
Sample Custody Seals.	Yes No N/A	Temperature Reading	2.3
Total Containers.		Corrected Temperature	2.0

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL. HC HNO_3 HN

H_2S0_4 H_2 NaOH Na

H_3PO_4. HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
CS-1 (1 5')	2/9/2023		X		C	1		X	X	X	
CS-2 (1 5')	2/9/2023		X		C	1		X	X	X	
CS-3 (1 5')	2/9/2023		X		C	1		X	X	X	
SW-1 (1 5')	2/9/2023		X		C	1		X	X	X	
SW-2 (1 5')	2/9/2023		X		C	1		X	X	X	
SW-3 (1 5')	2/9/2023		X		C	1		X	X	X	
SW-4 (1 5')	2/9/2023		X		C	1		X	X	X	

880-24617 Chain of Custody

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	2/13 8:40		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-24617-1
SDG Number: Eddy County, New Mexico

Login Number: 24617
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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

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

CONDITIONS

Action 197777

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 197777
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2234635594 DIAMONDBACK 22 STATE COM 005H, thank you. This closure is approved.	7/27/2023