

Incident ID	nAPP2211236521
District RP	
Facility ID	fAPP2127736439
Application ID	

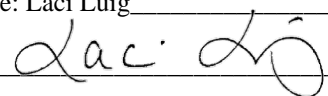
Closure

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: Laci Luig _____ Title: ESH Specialist _____
Signature:  _____ Date: 10/18/2022 _____
email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 11/03/2022 _____

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

Closure Approved by: Robert Hamlet _____ Date: 1/13/2023 _____
Printed Name: Robert Hamlet _____ Title: Environmental Specialist - Advanced _____

CARMONA RESOURCES



SITE INFORMATION

Closure Report

Riverboat 12-1 Federal Com 04.21.22

Incident ID: nAPP2211236521

Eddy County, New Mexico

Unit P Sec 12 T24S R26E

32.226071°, -104.239908°

Crude Oil Release

Point of Release: A heater treater fire tube gasket busted

Release Date: 04/21/2022

Volume Released: 18.3 Barrels of Crude Oil

Volume Recovered: 18 Barrels of Crude Oil

CARMONA RESOURCES



Prepared for:

Cimarex Energy Co.

600 N. Marienfeld Street

Suite 600

Midland, Texas 79701

Prepared by:

Carmona Resources, LLC

310 West Wall Street

Suite 415

Midland, Texas 79701

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



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October 26, 2022

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

**Re: Closure Report
Riverboat 12-1 Federal Com (04.21.22)
Cimarex Energy Co.
Site Location: Unit P, S12, T24S, R26E
(Lat 32.226071°, Long -104.239908°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Cimarex Energy Co. (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for Riverboat 12-1 Federal Com (04.21.22). The site is located at 32.226071°, -104.239908° within Unit P, S12, T24S, R26E, 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 leak was discovered on April 21, 2022, due to a busted gasket in a heater treater fire tube. It resulted in approximately eighteen point three (18.3) barrels of crude oil, and eighteen (18) barrels of crude oil were recovered. The impacted area is located on the pad and is shown on 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, no known water sources are within a 0.50-mile radius of the location. The nearest well is located approximately 1.02 miles Southeast of the site in S18, T24S, R27E and was drilled in 1963. The well has a reported depth to groundwater of 35' feet below ground surface (ft bgs). A copy of the summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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



4.0 Remediation Activities

Carmona Resources personnel were onsite on October 13, 2022, to supervise the remediation activities and collect confirmation samples. Before collecting composite confirmation samples, the NMOCD division office was notified via email on October 11, 2022, per Subsection D of 19.15.29.12 NMAC. See Appendix D. The areas of CS-1 through CS-6 were excavated to a depth 1.0' below the surface to remove all impacted soils. A total of six (6) confirmation floor samples were collected (CS-1 through CS-6), and four (4) sidewall samples (SW-1 through SW-4), were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The excavation depths and confirmation sample locations are shown in Figure 3.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 1.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 32 cubic yards of material were excavated and transported offsite for proper disposal.

5.0 Conclusion

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

Sincerely,

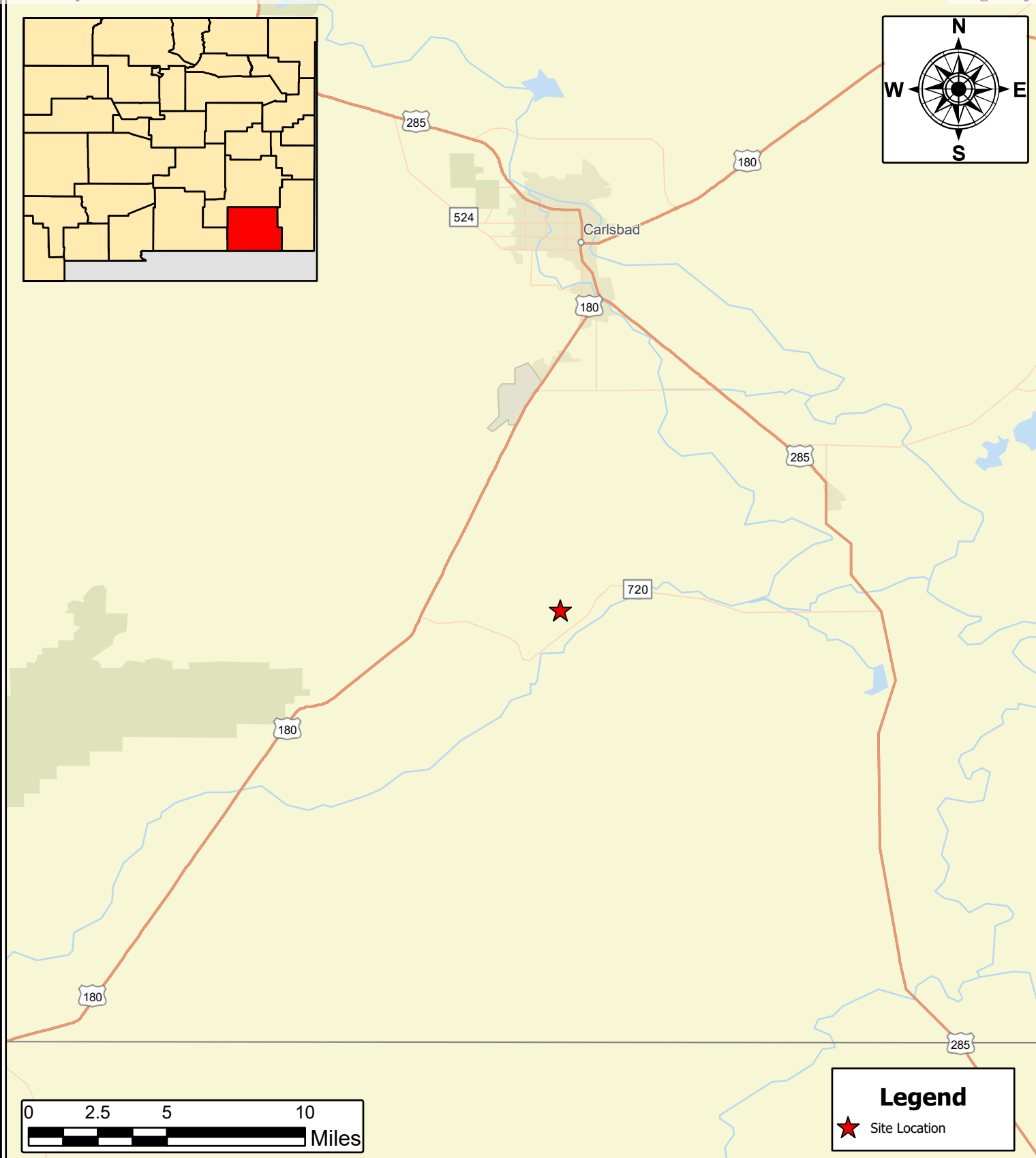
Mike Carmona
Environmental Manager

Ashton Thielke
Sr. Project Manager


FIGURES

CARMONA RESOURCES



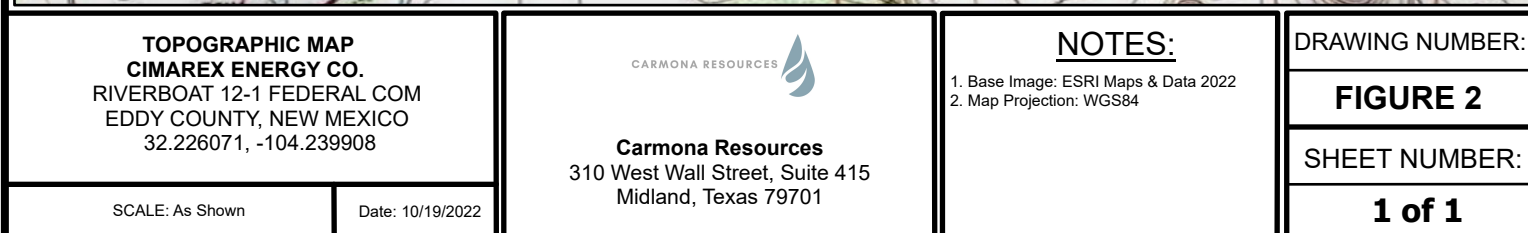


OVERVIEW MAP CIMAREX ENERGY CO. RIVERBOAT 12-1 FEDERAL COM EDDY COUNTY, NEW MEXICO 32.226071, -104.239908	
SCALE: As Shown	Date: 10/19/2022

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

NOTES: 1. Base Image: ESRI Maps & Data 2022 2. Map Projection: WGS84

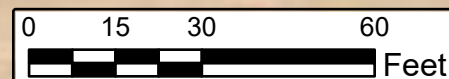
DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1





Legend

- Confirmation Sample
- Sidewall Sample
- ★ Point of Release
- 1' Excavation



EXCAVATION DEPTH MAP
CIMAREX ENERGY CO.
 RIVERBOAT 12-1 FEDERAL COM
 EDDY COUNTY, NEW MEXICO
 32.226071, -104.239908

SCALE: As Shown

Date: 10/24/2022



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

NOTES:

1. Base Image: ESRI Maps & Data 2022
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1

APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex Energy Co.
Riverboat 12-1 Federal Com (04.21.2022)
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	10/13/2022	1.0	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	34.9	
CS-2	10/13/2022	1.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	70.4	
CS-3	10/13/2022	1.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	53.5	
CS-4	10/13/2022	1.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	63.4	
CS-5	10/13/2022	1.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	206	
CS-6	10/13/2022	1.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	65.1	
SW-1	10/13/2022	1.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	54.0	
SW-2	10/13/2022	1.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	34.5	
SW-3	10/13/2022	1.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	41.7	
SW-4	10/13/2022	1.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	37.8	
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 Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex

Photograph No. 1

Facility: Riverboat 12-1 Federal Com
04.21.22

County: Eddy County, New Mexico

Description:
View north, location sign.



Photograph No. 2

Facility: Riverboat 12-1 Federal Com
04.21.22

County: Eddy County, New Mexico

Description:
View west, area of impact after recent rains.



Photograph No. 3

Facility: Riverboat 12-1 Federal Com
04.21.22

County: Eddy County, New Mexico

Description:
View east, area of impact after recent rains.



PHOTOGRAPHIC LOG

Cimarex

Photograph No. 4

Facility: Riverboat 12-1 Federal Com
04.21.22

County: Eddy County, New Mexico

Description:

View east, area of confirmation sample
(CS-1 through CS-3).



Photograph No. 5

Facility: Riverboat 12-1 Federal Com
04.21.22

County: Eddy County, New Mexico

Description:

View northwest, area of confirmation sample
(CS-4 through CS-6).



Photograph No. 6

Facility: Riverboat 12-1 Federal Com
04.21.22

County: Eddy County, New Mexico

Description:

View west, area of confirmation sample
(CS-1 through CS-6).



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	nAPP2211236521
District RP	
Facility ID	fAPP2127736439
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2211236521
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.226071 _____ Longitude -104.239908 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Riverboat 12-1 Federal Com	Site Type: Battery
Date Release Discovered: 4/21/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	12	24S	26E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 18.3	Volume Recovered (bbls) 18
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Material Failure

A heater treater fire tube gasket busted resulting in a release of 18 barrels oil into the lined containment and 15 gallons oil overspray outside the containment. All 18 barrels inside the containment were recovered. The containment will be washed and an environmental company will remediate impacted soils. A liner and sampling notification will be scheduled.

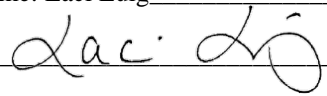
State of New Mexico
Oil Conservation Division

Incident ID	nAPP2211236521
District RP	
Facility ID	fAPP2127736439
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Laci Luig To: OCD Enviro, BLM By: Email	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Laci Luig	Title: ESH Specialist
Signature: 	Date: 4/21/2022
email: laci.luig@coterra.com	Telephone: (432) 208-3035
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	nAPP2211236521
District RP	
Facility ID	fAPP2127736439
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?	<u>35</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2211236521
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Printed Name: Laci Luig_____ Title: ESH Specialist_____

Signature: Laci Luig_____ Date: 10/18/2022_____

email: laci.luig@coterra.com_____ Telephone: (432) 208-3035_____

OCD Only

Received by: Jocelyn Harimon_____ Date: 11/03/2022_____

Incident ID	nAPP2211236521
District RP	
Facility ID	fAPP2127736439
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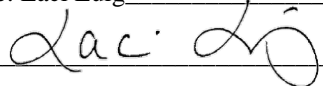
Closure

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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: Laci Luig _____ Title: ESH Specialist _____
Signature:  _____ Date: 10/18/2022 _____
email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 11/03/2022 _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Ashton Thielke

From: Ashton Thielke
Sent: Tuesday, October 11, 2022 8:23 AM
To: OCD.Enviro@state.nm.us; NMOCD Spill Notifications (OCD.Enviro@emnrd.nm.gov)
Cc: Laci Luig
Subject: NAPP2211236521 - Riverboat 12-1 Fed Com (4.21.2022)

This email serves as a 48-hour notification for confirmation sampling on the above mentioned site. Sampling is scheduled to begin as early as October 13, 2022, weather and soil conditions permitting. Carmona Resources will be onsite for confirmation sampling.

Site Coordinates:
32.226388, -104.239733

Thank you,



Ashton Thielke | PBU - Environmental Consultant
T: 432.813.5347 | M: 281.753.5659 | ashton.thielke@coterra.com | www.coterra.com
Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

APPENDIX D

CARMONA RESOURCES

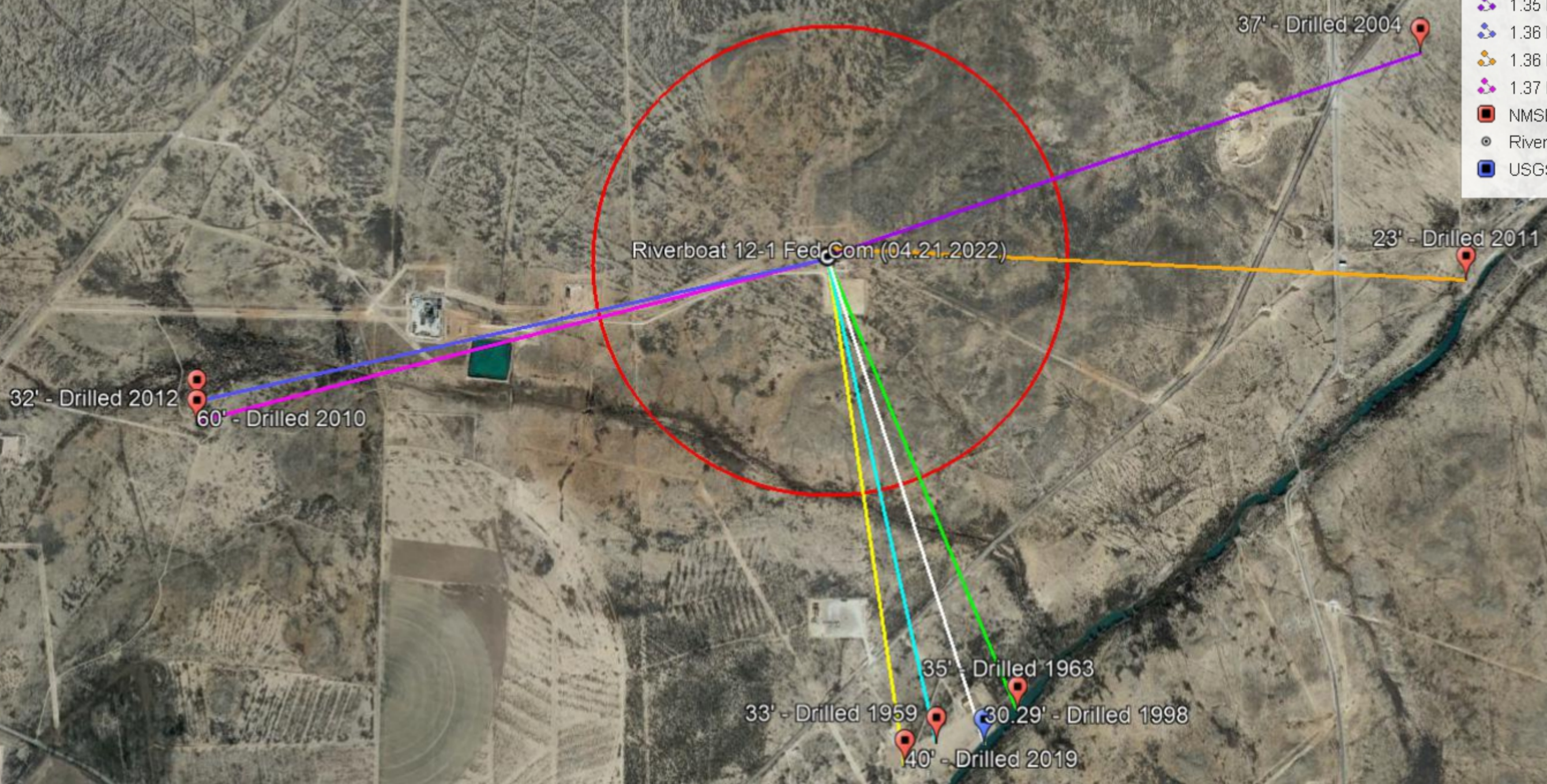


Nearest water well

Cimarex Energy Co.

Legend

- 0.50 Mile Radius
- 1.02 Miles
- 1.03 Miles
- 1.06 Miles
- 1.06 Miles
- 1.35 Miles
- 1.36 Miles
- 1.36 Miles
- 1.37 Miles
- NMSEO Water Well
- Riverboat 12-1 Fed Com (04.21.2022)
- USGS Water Well



4000 ft

High Karst

Cimarex Energy Co.

Legend

- High
- Medium
- Riverboat 12-1 Fed Com (04.21.2022)

Riverboat 12-1 Fed Com (04.21.2022)

Josey W



1 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03192	C	ED		1	2	1	13	24S	26E	570697	3565474*	988	200		
C 01169	C	ED		1	4	3	18	24S	27E	572282	3564261*	1644	55	35	20
C 00929	C	ED			3	3	18	24S	27E	572013	3564159*	1658	54	33	21
C 03560 POD1	C	ED		2	3	3	18	24S	27E	572009	3564150	1665	68	28	40
C 04360 POD1	C	ED		3	3	3	18	24S	27E	571910	3564085	1711	72	40	32
C 03092	C	ED		4	3	1	08	24S	27E	573678	3566501*	2164	54	37	17
C 03490 POD1	CUB	ED		3	4	3	08	24S	27E	573812	3565709	2173	140	23	117
C 02043	C	ED			2	1	24	24S	26E	570805	3563758*	2182	42	28	14
C 03414 POD2	C	ED		3	1	2	14	24S	26E	569509	3565257	2191	100	32	68
C 03414 POD1	C	ED		3	1	2	14	24S	26E	569513	3565188	2205	80	60	20
C 03414 POD1	R C	ED		3	1	2	14	24S	26E	569513	3565188	2205	80	60	20
C 00516 POD10	CUB	ED		3	4	3	08	24S	27E	573875	3565722	2236	160	45	115
C 00516 POD6	CUB	ED		1	4	3	08	24S	27E	573885	3565895*	2249	78	17	61
C 03777 POD1	C	ED		3	1	2	24	24S	26E	571120	3563571	2263	55	28	27
C 00683	C	ED			4	3	08	24S	27E	573986	3565796*	2347	50	17	33
C 01187	C	ED			4	3	08	24S	27E	573986	3565796*	2347	108	17	91
C 03675	C	ED		2	2	2	23	24S	26E	570134	3563860	2435	59	38	21
C 03489 POD1	CUB	ED		2	4	3	08	24S	27E	574153	3565939	2519	200		
C 04365 POD1	C	ED		4	2	4	14	24S	26E	569455	3564422	2569			
C 00396	C CUB	ED			2	2	23	24S	26E	570003	3563758*	2596	2032		
C 00631	C	ED		3	3	4	08	24S	27E	574288	3565701*	2650	50	24	26
C 00516	CUB	ED		1	3	4	08	24S	27E	574288	3565901*	2651	105	36	69
C 00516 CLW201016	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*	2651	62		
C 00516 CLW308590	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*	2651	105	36	69
C 00516 S	CUB	ED		1	3	4	08	24S	27E	574288	3565901	2651	50	17	33
C 00262	R C	ED		4	3	1	24	24S	26E	570481	3563253*	2774	50		

*UTM location was derived from PLSS - see Help

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 00692	C	ED		3	3	1	24	24S	26E	570281	3563253*	2864	50	42	8
C 01085	C	ED			4	2	23	24S	26E	569990	3563356*	2927	127	60	67
C 01366	CUB	ED				4	08	24S	27E	574590	3566003*	2959	60	35	25
C 00100 A	CUB	ED		1	1	3	24	24S	26E	570284	3563053	3040	51	26	25
C 00949	C	ED		1	1	3	24	24S	26E	570284	3563053*	3040	62	35	27
C 00517	C	ED		1	3	2	23	24S	26E	569498	3563456*	3156	80	31	49
C 00369	C	CUB	ED		2	1	23	24S	26E	569207	3563757*	3160			
C 01616	C	ED			2	4	23	24S	26E	569988	3562956*	3266	84	84	0
C 00690	C	ED		1	3	3	24	24S	26E	570288	3562653*	3401	30	10	20
C 00883	C	ED		3	2	4	23	24S	26E	569887	3562855*	3405	60	14	46
C 00928	C	ED			1	1	23	24S	26E	568806	3563757*	3478	91	7	84
C 00829	C	ED			1	4	23	24S	26E	569591	3562957*	3483	50	19	31
C 03110	C	ED		4	1	4	23	24S	26E	569690	3562856*	3509	35	12	23
C 03526 POD1	C	ED		1	4	4	23	24S	26E	569788	3562666	3618	200		
C 01869	R	C	ED	2	3	4	23	24S	26E	569753	3562679	3624	110	30	80
C 01869 POD2	C	ED		2	3	4	23	24S	26E	569753	3562679	3624	111	50	61
C 02174	C	ED				2	10	24S	26E	568143	3566804*	3644	263	233	30
C 00262 POD2	C	ED		4	3	1	24	24S	26E	570234	3562337	3713	45	18	27
C 00850	C	ED			2	3	09	24S	27E	575595	3566223*	3981	108	35	73

Average Depth to Water: **37 feet**

Minimum Depth: **7 feet**

Maximum Depth: **233 feet**

Record Count: 45

UTM NAD83 Radius Search (in meters):

Easting (X): 571639

Northing (Y): 3565774.71

Radius: 4000

*UTM location was derived from PLSS - see Help

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

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	03414 POD2	3	1	2	14	24S	26E	569509	3565257 
<hr/>									
Driller License:	1348	Driller Company:				TAYLOR WATER WELL SERVICE			
Driller Name:	TAYLOR, CLINTON E.								
Drill Start Date:	02/27/2012	Drill Finish Date:				02/28/2012		Plug Date:	
Log File Date:	07/16/2012	PCW Rcv Date:						Source:	Shallow
Pump Type:		Pipe Discharge Size:						Estimated Yield:	2 GPM
Casing Size:	4.50	Depth Well:				100 feet		Depth Water:	32 feet
<hr/>									
Water Bearing Stratifications:					Top	Bottom	Description		
					61	96	Shale/Mudstone/Siltstone		
<hr/>									
Casing Perforations:					Top	Bottom			
					52	92			
<hr/>									

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	03414 POD1	3	1	2	14	24S	26E	569513	3565188 
Driller License: 1541		Driller Company:				CROCKETT TRUCKING LLC ET AL			
Driller Name: TRAVIS MANN									
Drill Start Date: 04/26/2010		Drill Finish Date:				04/28/2010		Plug Date:	
Log File Date: 04/30/2010		PCW Rcv Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield: 15 GPM	
Casing Size: 4.00		Depth Well:				80 feet		Depth Water: 60 feet	
Water Bearing Stratifications:					Top	Bottom	Description		
					60	75	Sandstone/Gravel/Conglomerate		
Casing Perforations:					Top	Bottom			
					30	50			

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
C	03490 POD1	3	4	3	08	24S	27E	573812	3565709		
Driller License: 1690		Driller Company:				VISION RESOURCES, INC					
Driller Name:		JASON MALEY (LD)									
Drill Start Date: 06/29/2011		Drill Finish Date:				06/30/2011		Plug Date:			
Log File Date: 06/18/2012		PCW Rcv Date:						Source:		Shallow	
Pump Type: SUBMER		Pipe Discharge Size:						Estimated Yield:		150 GPM	
Casing Size: 8.00		Depth Well:				140 feet		Depth Water:		23 feet	
Water Bearing Stratifications:					Top	Bottom	Description				
					80	140	Sandstone/Gravel/Conglomerate				
Casing Perforations:					Top	Bottom					
					80	140					

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
C	00929	3	3	18	24S	27E	572013	3564159*					
Driller License: 30		Driller Company:		BARRON, EMMETT									
Driller Name:		BARRON, EMMETT											
Drill Start Date: 05/12/1959		Drill Finish Date:			05/15/1959		Plug Date:						
Log File Date: 06/07/1960		PCW Rcv Date:					Source: Shallow						
Pump Type:		Pipe Discharge Size:					Estimated Yield:						
Casing Size: 7.00		Depth Well:			54 feet		Depth Water: 33 feet						
Water Bearing Stratifications:					Top	Bottom	Description						
					34	50	Sandstone/Gravel/Conglomerate						

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	01169	1	4	3	18	24S	27E	572282	3564261* 

Driller License:	30	Driller Company:	BARRON, EMMETT						
Driller Name:	BARRON, EMMETT								
Drill Start Date:	09/21/1963	Drill Finish Date:	09/23/1963				Plug Date:		
Log File Date:	02/25/1964	PCW Rev Date:					Source:	Shallow	
Pump Type:		Pipe Discharge Size:					Estimated Yield:		
Casing Size:	7.00	Depth Well:	55 feet				Depth Water:	35 feet	

Water Bearing Stratifications:		Top	Bottom	Description
		35	50	Sandstone/Gravel/Conglomerate

Casing Perforations:		Top	Bottom
		21	55

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)		(NAD83 UTM in meters)					
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	03092	4	3	1	08	24S	27E	573678	3566501*

Driller License:	1348	Driller Company:	TAYLOR WATER WELL SERVICE	
Driller Name:				
Drill Start Date:	05/17/2004	Drill Finish Date:	05/18/2004	Plug Date:
Log File Date:	07/16/2004	PCW Rev Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield: 60 GPM
Casing Size:	6.63	Depth Well:	54 feet	Depth Water: 37 feet

Water Bearing Stratifications:	Top	Bottom	Description
	43	49	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	34	54

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
22503	C 04360 POD1	3	3	3	18	24S	27E	571910	3564085 
Driller License: 1348		Driller Company:		TAYLOR WATER WELL SERVICE					
Driller Name:		TAYLOR, CLINTON E.E.ENER							
Drill Start Date: 11/01/2019		Drill Finish Date:		11/04/2019		Plug Date:			
Log File Date: 11/18/2019		PCW Rcv Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:		100 GPM	
Casing Size: 4.50		Depth Well:		72 feet		Depth Water:		40 feet	
Water Bearing Stratifications:					Top	Bottom	Description		
					40	54	Limestone/Dolomite/Chalk		
					54	60	Sandstone/Gravel/Conglomerate		
					60	72	Other/Unknown		
Casing Perforations:					Top	Bottom			
					39	72			

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POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface


[USGS Water Resources](#)

Data Category:
Groundwater

Geographic Area:
New Mexico

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- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321242104140301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321242104140301 24S.27E.18.33332

Eddy County, New Mexico

Latitude 32°12'42", Longitude 104°14'03" NAD27

Land-surface elevation 3,189 feet above NAVD88

The depth of the well is 35 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
1955-07-13			D 62610		3159.06	NGVD29	1	Z		
1955-07-13			D 62611		3160.73	NAVD88	1	Z		
1955-07-13			D 72019	28.27			1	Z		
1978-01-25			D 62610		3157.58	NGVD29	1	Z		
1978-01-25			D 62611		3159.25	NAVD88	1	Z		
1978-01-25			D 72019	29.75			1	Z		
1983-01-27			D 62610		3157.92	NGVD29	1	Z		
1983-01-27			D 62611		3159.59	NAVD88	1	Z		
1983-01-27			D 72019	29.41			1	Z		
1988-02-10			D 62610		3158.99	NGVD29	1	Z		
1988-02-10			D 62611		3160.66	NAVD88	1	Z		
1988-02-10			D 72019	28.34			1	Z		
1992-11-12			D 62610		3158.16	NGVD29	1	S		
1992-11-12			D 62611		3159.83	NAVD88	1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1992-11-12		D	72019	29.17			1	S		
1998-01-07		D	62610		3157.04	NGVD29	1	S		
1998-01-07		D	62611		3158.71	NAVD88	1	S		
1998-01-07		D	72019	30.29			1	S		

Explanation

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

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Title: Groundwater for New Mexico: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=321242104140301&agency_cd=USGS&format=html)



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-10-11 11:54:05 EDT

0.28 0.24 nadww01



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03192	C	ED		1	2	1	13	24S	26E	570697	3565474*	988	200		
C 01169	C	ED		1	4	3	18	24S	27E	572282	3564261*	1644	55	35	20
C 00929	C	ED			3	3	18	24S	27E	572013	3564159*	1658	54	33	21
C 03560 POD1	C	ED		2	3	3	18	24S	27E	572009	3564150	1665	68	28	40
C 04360 POD1	C	ED		3	3	3	18	24S	27E	571910	3564085	1711	72	40	32
C 03092	C	ED		4	3	1	08	24S	27E	573678	3566501*	2164	54	37	17
C 03490 POD1	CUB	ED		3	4	3	08	24S	27E	573812	3565709	2173	140	23	117
C 02043	C	ED			2	1	24	24S	26E	570805	3563758*	2182	42	28	14
C 03414 POD2	C	ED		3	1	2	14	24S	26E	569509	3565257	2191	100	32	68
C 03414 POD1	C	ED		3	1	2	14	24S	26E	569513	3565188	2205	80	60	20
C 03414 POD1	R C	ED		3	1	2	14	24S	26E	569513	3565188	2205	80	60	20
C 00516 POD10	CUB	ED		3	4	3	08	24S	27E	573875	3565722	2236	160	45	115
C 00516 POD6	CUB	ED		1	4	3	08	24S	27E	573885	3565895*	2249	78	17	61
C 03777 POD1	C	ED		3	1	2	24	24S	26E	571120	3563571	2263	55	28	27
C 00683	C	ED			4	3	08	24S	27E	573986	3565796*	2347	50	17	33
C 01187	C	ED			4	3	08	24S	27E	573986	3565796*	2347	108	17	91
C 03675	C	ED		2	2	2	23	24S	26E	570134	3563860	2435	59	38	21
C 03489 POD1	CUB	ED		2	4	3	08	24S	27E	574153	3565939	2519	200		
C 04365 POD1	C	ED		4	2	4	14	24S	26E	569455	3564422	2569			
C 00396	C CUB	ED			2	2	23	24S	26E	570003	3563758*	2596	2032		
C 00631	C	ED		3	3	4	08	24S	27E	574288	3565701*	2650	50	24	26
C 00516	CUB	ED		1	3	4	08	24S	27E	574288	3565901*	2651	105	36	69
C 00516 CLW201016	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*	2651	62		
C 00516 CLW308590	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*	2651	105	36	69
C 00516 S	CUB	ED		1	3	4	08	24S	27E	574288	3565901	2651	50	17	33
C 00262	R C	ED		4	3	1	24	24S	26E	570481	3563253*	2774	50		

*UTM location was derived from PLSS - see Help

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POD suffix indicates the
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(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 00692	C	ED		3	3	1	24	24S	26E	570281	3563253*	2864	50	42	8
C 01085	C	ED			4	2	23	24S	26E	569990	3563356*	2927	127	60	67
C 01366	CUB	ED				4	08	24S	27E	574590	3566003*	2959	60	35	25
C 00100 A	CUB	ED		1	1	3	24	24S	26E	570284	3563053	3040	51	26	25
C 00949	C	ED		1	1	3	24	24S	26E	570284	3563053*	3040	62	35	27
C 00517	C	ED		1	3	2	23	24S	26E	569498	3563456*	3156	80	31	49
C 00369	C	CUB	ED		2	1	23	24S	26E	569207	3563757*	3160			
C 01616	C	ED			2	4	23	24S	26E	569988	3562956*	3266	84	84	0
C 00690	C	ED		1	3	3	24	24S	26E	570288	3562653*	3401	30	10	20
C 00883	C	ED		3	2	4	23	24S	26E	569887	3562855*	3405	60	14	46
C 00928	C	ED			1	1	23	24S	26E	568806	3563757*	3478	91	7	84
C 00829	C	ED			1	4	23	24S	26E	569591	3562957*	3483	50	19	31
C 03110	C	ED		4	1	4	23	24S	26E	569690	3562856*	3509	35	12	23
C 03526 POD1	C	ED		1	4	4	23	24S	26E	569788	3562666	3618	200		
C 01869	R	C	ED	2	3	4	23	24S	26E	569753	3562679	3624	110	30	80
C 01869 POD2	C	ED		2	3	4	23	24S	26E	569753	3562679	3624	111	50	61
C 02174	C	ED				2	10	24S	26E	568143	3566804*	3644	263	233	30
C 00262 POD2	C	ED		4	3	1	24	24S	26E	570234	3562337	3713	45	18	27
C 00850	C	ED			2	3	09	24S	27E	575595	3566223*	3981	108	35	73

Average Depth to Water: **37 feet**

Minimum Depth: **7 feet**

Maximum Depth: **233 feet**

Record Count: 45

UTM NAD83 Radius Search (in meters):

Easting (X): 571639

Northing (Y): 3565774.71

Radius: 4000

*UTM location was derived from PLSS - see Help

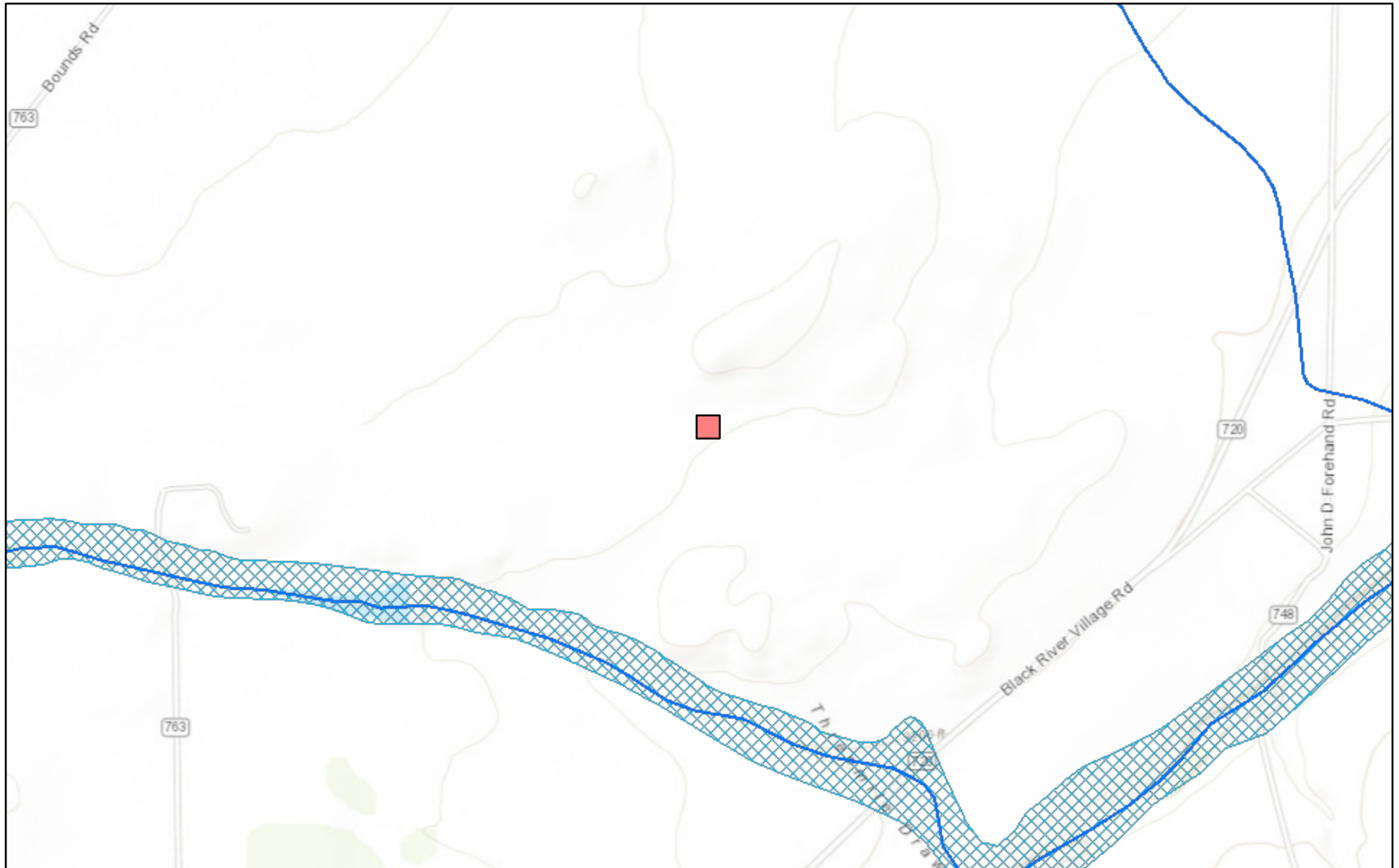
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/11/22 10:15 AM

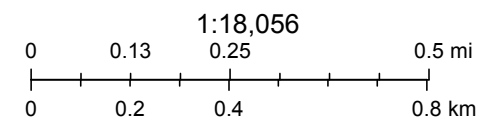
Page 2 of 2

WATER COLUMN/ AVERAGE
DEPTH TO WATER

New Mexico NFHL Data



October 11, 2022



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





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-20370-1

Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

For:

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

Attn: Ashton Thielke

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

10/17/2022 11:33:30 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



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www.eurofinsus.com/Env

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

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

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Laboratory Job ID: 880-20370-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Job ID: 880-20370-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-20370-1****Receipt**

The samples were received on 10/14/2022 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-1 (1') (880-20370-1), SW-2 (1') (880-20370-2), SW-3 (1') (880-20370-3), SW-4 (1') (880-20370-4), CS-1 (1') (880-20370-5), CS-2 (1') (880-20370-6), CS-3 (1') (880-20370-7), CS-4 (1') (880-20370-8), CS-5 (1') (880-20370-9) and CS-6 (1') (880-20370-10).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-1 (1') (880-20370-1), SW-2 (1') (880-20370-2), CS-3 (1') (880-20370-7), CS-5 (1') (880-20370-9) and CS-6 (1') (880-20370-10). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-36940 and analytical batch 880-36920 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-20370-A-1-C MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-36940 and analytical batch 880-36920 was outside control limits. Sample non-homogeneity is suspected.

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: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: SW-1 (1')

Lab Sample ID: 880-20370-1

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 16:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 16:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 16:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/14/22 08:57	10/14/22 16:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 16:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/14/22 08:57	10/14/22 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	10/14/22 08:57	10/14/22 16:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/14/22 08:57	10/14/22 16:13	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			10/17/22 11:16	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			10/17/22 10:08	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 F2	49.8		mg/Kg		10/14/22 09:09	10/14/22 11:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/22 09:09	10/14/22 11:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/22 09:09	10/14/22 11:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	10/14/22 09:09	10/14/22 11:00	1
o-Terphenyl	90		70 - 130	10/14/22 09:09	10/14/22 11:00	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.0		4.97		mg/Kg			10/14/22 16:47	1

Client Sample ID: SW-2 (1')

Lab Sample ID: 880-20370-2

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 16:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 16:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 16:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/22 08:57	10/14/22 16:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 16:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/22 08:57	10/14/22 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	10/14/22 08:57	10/14/22 16:43	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	10/14/22 08:57	10/14/22 16:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: SW-2 (1')

Lab Sample ID: 880-20370-2

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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			10/17/22 11:16	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			10/17/22 10:08	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		10/14/22 09:09	10/14/22 12:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 09:09	10/14/22 12:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 09:09	10/14/22 12:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				10/14/22 09:09	10/14/22 12:05	1
o-Terphenyl	102		70 - 130				10/14/22 09:09	10/14/22 12:05	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.5		4.95		mg/Kg			10/14/22 16:52	1

Client Sample ID: SW-3 (1')

Lab Sample ID: 880-20370-3

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 17:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 17:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 17:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 08:57	10/14/22 17:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 17:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 08:57	10/14/22 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				10/14/22 08:57	10/14/22 17:04	1
1,4-Difluorobenzene (Surr)	100		70 - 130				10/14/22 08:57	10/14/22 17:04	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			10/17/22 11:16	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			10/17/22 10:08	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		10/14/22 09:09	10/14/22 12:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/22 09:09	10/14/22 12:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: SW-3 (1')

Lab Sample ID: 880-20370-3

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/22 09:09	10/14/22 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				10/14/22 09:09	10/14/22 12:26	1
o-Terphenyl	103		70 - 130				10/14/22 09:09	10/14/22 12:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.7		4.95		mg/Kg			10/14/22 16:57	1

Client Sample ID: SW-4 (1')

Lab Sample ID: 880-20370-4

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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		10/14/22 08:57	10/14/22 17:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/14/22 08:57	10/14/22 17:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/14/22 08:57	10/14/22 17:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/14/22 08:57	10/14/22 17:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/14/22 08:57	10/14/22 17:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/14/22 08:57	10/14/22 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				10/14/22 08:57	10/14/22 17:24	1
1,4-Difluorobenzene (Surr)	99		70 - 130				10/14/22 08:57	10/14/22 17:24	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			10/17/22 11:16	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			10/17/22 10:08	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		10/14/22 09:09	10/14/22 12:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 09:09	10/14/22 12:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 09:09	10/14/22 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				10/14/22 09:09	10/14/22 12:48	1
o-Terphenyl	118		70 - 130				10/14/22 09:09	10/14/22 12:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.8		5.00		mg/Kg			10/14/22 17:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (1')

Lab Sample ID: 880-20370-5

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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		10/14/22 08:57	10/14/22 17:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/14/22 08:57	10/14/22 17:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/14/22 08:57	10/14/22 17:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/14/22 08:57	10/14/22 17:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/14/22 08:57	10/14/22 17:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/14/22 08:57	10/14/22 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/14/22 08:57	10/14/22 17:45	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/14/22 08:57	10/14/22 17:45	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			10/17/22 11:16	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			10/17/22 10:08	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		10/14/22 09:09	10/14/22 13:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 09:09	10/14/22 13:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 09:09	10/14/22 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	10/14/22 09:09	10/14/22 13:09	1
o-Terphenyl	102		70 - 130	10/14/22 09:09	10/14/22 13:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.9		5.01		mg/Kg			10/14/22 17:06	1

Client Sample ID: CS-2 (1')

Lab Sample ID: 880-20370-6

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 18:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 18:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 18:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/14/22 08:57	10/14/22 18:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 18:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/14/22 08:57	10/14/22 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	10/14/22 08:57	10/14/22 18:05	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/14/22 08:57	10/14/22 18:05	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: CS-2 (1')

Lab Sample ID: 880-20370-6

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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			10/17/22 11:16	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			10/17/22 10:08	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		10/14/22 09:09	10/14/22 13:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 09:09	10/14/22 13:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 09:09	10/14/22 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				10/14/22 09:09	10/14/22 13:31	1
o-Terphenyl	128		70 - 130				10/14/22 09:09	10/14/22 13:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.4		4.99		mg/Kg			10/14/22 17:21	1

Client Sample ID: CS-3 (1')

Lab Sample ID: 880-20370-7

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 18:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 18:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 18:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 08:57	10/14/22 18:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 18:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 08:57	10/14/22 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				10/14/22 08:57	10/14/22 18:26	1
1,4-Difluorobenzene (Surr)	89		70 - 130				10/14/22 08:57	10/14/22 18:26	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			10/17/22 11:16	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			10/17/22 10:08	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		10/14/22 09:09	10/14/22 13:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 09:09	10/14/22 13:52	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: CS-3 (1')

Lab Sample ID: 880-20370-7

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 09:09	10/14/22 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				10/14/22 09:09	10/14/22 13:52	1
o-Terphenyl	103		70 - 130				10/14/22 09:09	10/14/22 13:52	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.5		4.98		mg/Kg			10/14/22 17:26	1

Client Sample ID: CS-4 (1')

Lab Sample ID: 880-20370-8

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 18:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 18:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 18:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 08:57	10/14/22 18:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 08:57	10/14/22 18:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 08:57	10/14/22 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				10/14/22 08:57	10/14/22 18:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130				10/14/22 08:57	10/14/22 18:47	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			10/17/22 11:16	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			10/17/22 10:08	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		10/14/22 09:09	10/14/22 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 09:09	10/14/22 14:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 09:09	10/14/22 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				10/14/22 09:09	10/14/22 14:14	1
o-Terphenyl	108		70 - 130				10/14/22 09:09	10/14/22 14:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.4		5.03		mg/Kg			10/14/22 17:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: CS-5 (1')

Lab Sample ID: 880-20370-9

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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		10/14/22 08:57	10/14/22 19:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/14/22 08:57	10/14/22 19:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/14/22 08:57	10/14/22 19:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/14/22 08:57	10/14/22 19:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/14/22 08:57	10/14/22 19:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/14/22 08:57	10/14/22 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	10/14/22 08:57	10/14/22 19:08	1
1,4-Difluorobenzene (Surr)	86		70 - 130	10/14/22 08:57	10/14/22 19:08	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			10/17/22 11:16	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			10/17/22 10:08	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		10/14/22 09:09	10/14/22 14:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/22 09:09	10/14/22 14:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/22 09:09	10/14/22 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	10/14/22 09:09	10/14/22 14:35	1
o-Terphenyl	106		70 - 130	10/14/22 09:09	10/14/22 14:35	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206		5.04		mg/Kg			10/14/22 17:45	1

Client Sample ID: CS-6 (1')

Lab Sample ID: 880-20370-10

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 19:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 19:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 19:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/14/22 08:57	10/14/22 19:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 19:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/14/22 08:57	10/14/22 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	10/14/22 08:57	10/14/22 19:28	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/14/22 08:57	10/14/22 19:28	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: CS-6 (1')

Lab Sample ID: 880-20370-10

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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			10/17/22 11:16	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			10/17/22 10:08	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		10/14/22 09:09	10/14/22 14:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/22 09:09	10/14/22 14:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/22 09:09	10/14/22 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				10/14/22 09:09	10/14/22 14:56	1
o-Terphenyl	108		70 - 130				10/14/22 09:09	10/14/22 14:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.1		4.98		mg/Kg			10/14/22 17:50	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-20370-1	SW-1 (1')	65 S1-	90
880-20370-2	SW-2 (1')	68 S1-	65 S1-
880-20370-3	SW-3 (1')	108	100
880-20370-4	SW-4 (1')	110	99
880-20370-5	CS-1 (1')	109	96
880-20370-6	CS-2 (1')	121	98
880-20370-7	CS-3 (1')	131 S1+	89
880-20370-8	CS-4 (1')	115	97
880-20370-9	CS-5 (1')	134 S1+	86
880-20370-10	CS-6 (1')	137 S1+	88
890-3164-A-1-F MS	Matrix Spike	103	98
890-3164-A-1-G MSD	Matrix Spike Duplicate	92	94
LCS 880-36936/1-A	Lab Control Sample	91	95
LCSD 880-36936/2-A	Lab Control Sample Dup	92	95
MB 880-36936/5-A	Method Blank	102	82
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)
880-20370-1	SW-1 (1')	83	90
880-20370-1 MS	SW-1 (1')	71	69 S1-
880-20370-1 MSD	SW-1 (1')	85	79
880-20370-2	SW-2 (1')	92	102
880-20370-3	SW-3 (1')	92	103
880-20370-4	SW-4 (1')	111	118
880-20370-5	CS-1 (1')	94	102
880-20370-6	CS-2 (1')	118	128
880-20370-7	CS-3 (1')	93	103
880-20370-8	CS-4 (1')	98	108
880-20370-9	CS-5 (1')	97	106
880-20370-10	CS-6 (1')	101	108
LCS 880-36940/2-A	Lab Control Sample	99	112
LCSD 880-36940/3-A	Lab Control Sample Dup	98	111
MB 880-36940/1-A	Method Blank	119	135 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36936/5-A

Matrix: Solid

Analysis Batch: 36928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 11:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 11:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/14/22 08:57	10/14/22 11:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 08:57	10/14/22 11:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/14/22 08:57	10/14/22 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/14/22 08:57	10/14/22 11:21	1
1,4-Difluorobenzene (Surr)	82		70 - 130	10/14/22 08:57	10/14/22 11:21	1

Lab Sample ID: LCS 880-36936/1-A

Matrix: Solid

Analysis Batch: 36928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1022		mg/Kg		102	70 - 130
Toluene	0.100	0.1041		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.09738		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2055		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-36936/2-A

Matrix: Solid

Analysis Batch: 36928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36936

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1058		mg/Kg		106	70 - 130	3	35
Toluene	0.100	0.1063		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2091		mg/Kg		105	70 - 130	2	35
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-3164-A-1-F MS

Matrix: Solid

Analysis Batch: 36928

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36936

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08153		mg/Kg		81	70 - 130
Toluene	<0.00200	U	0.100	0.08840		mg/Kg		88	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-3164-A-1-F MS

Matrix: Solid

Analysis Batch: 36928

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36936

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09509		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2037		mg/Kg		102	70 - 130
o-Xylene	<0.00200	U	0.100	0.1023		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-3164-A-1-G MSD

Matrix: Solid

Analysis Batch: 36928

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36936

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08924		mg/Kg		90	70 - 130	9	35
Toluene	<0.00200	U	0.0990	0.09029		mg/Kg		91	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0990	0.08591		mg/Kg		87	70 - 130	10	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1777		mg/Kg		90	70 - 130	14	35
o-Xylene	<0.00200	U	0.0990	0.09004		mg/Kg		91	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-36940/1-A

Matrix: Solid

Analysis Batch: 36920

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36940

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		10/14/22 09:09	10/14/22 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 09:09	10/14/22 09:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 09:09	10/14/22 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	10/14/22 09:09	10/14/22 09:55	1
o-Terphenyl	135	S1+	70 - 130	10/14/22 09:09	10/14/22 09:55	1

Lab Sample ID: LCS 880-36940/2-A

Matrix: Solid

Analysis Batch: 36920

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	901.2		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	928.0		mg/Kg		93	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-36940/2-A
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36940

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-36940/3-A
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36940

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	924.4		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	934.3		mg/Kg		93	70 - 130	1	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	98										
o-Terphenyl	111										

Lab Sample ID: 880-20370-1 MS
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: SW-1 (1')
Prep Type: Total/NA
Prep Batch: 36940

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F2	998	1011		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	798.6		mg/Kg		78	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	71										
o-Terphenyl	69	S1-									

Lab Sample ID: 880-20370-1 MSD
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: SW-1 (1')
Prep Type: Total/NA
Prep Batch: 36940

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	<49.8	U F2	998	792.1	F2	mg/Kg		78	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	931.0		mg/Kg		91	70 - 130	15	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	85										
o-Terphenyl	79										

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QC Sample Results

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36938/1-A

Matrix: Solid

Analysis Batch: 36946

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			10/14/22 15:44	1

Lab Sample ID: LCS 880-36938/2-A

Matrix: Solid

Analysis Batch: 36946

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.8		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-36938/3-A

Matrix: Solid

Analysis Batch: 36946

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	261.1		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-20370-5 MS

Matrix: Solid

Analysis Batch: 36946

Client Sample ID: CS-1 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	34.9		251	305.1		mg/Kg		108	90 - 110

Lab Sample ID: 880-20370-5 MSD

Matrix: Solid

Analysis Batch: 36946

Client Sample ID: CS-1 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	34.9		251	304.8		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
 Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
 SDG: Eddy Co, NM

GC VOA

Analysis Batch: 36928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20370-1	SW-1 (1')	Total/NA	Solid	8021B	36936
880-20370-2	SW-2 (1')	Total/NA	Solid	8021B	36936
880-20370-3	SW-3 (1')	Total/NA	Solid	8021B	36936
880-20370-4	SW-4 (1')	Total/NA	Solid	8021B	36936
880-20370-5	CS-1 (1')	Total/NA	Solid	8021B	36936
880-20370-6	CS-2 (1')	Total/NA	Solid	8021B	36936
880-20370-7	CS-3 (1')	Total/NA	Solid	8021B	36936
880-20370-8	CS-4 (1')	Total/NA	Solid	8021B	36936
880-20370-9	CS-5 (1')	Total/NA	Solid	8021B	36936
880-20370-10	CS-6 (1')	Total/NA	Solid	8021B	36936
MB 880-36936/5-A	Method Blank	Total/NA	Solid	8021B	36936
LCS 880-36936/1-A	Lab Control Sample	Total/NA	Solid	8021B	36936
LCSD 880-36936/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36936
890-3164-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	36936
890-3164-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36936

Prep Batch: 36936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20370-1	SW-1 (1')	Total/NA	Solid	5035	
880-20370-2	SW-2 (1')	Total/NA	Solid	5035	
880-20370-3	SW-3 (1')	Total/NA	Solid	5035	
880-20370-4	SW-4 (1')	Total/NA	Solid	5035	
880-20370-5	CS-1 (1')	Total/NA	Solid	5035	
880-20370-6	CS-2 (1')	Total/NA	Solid	5035	
880-20370-7	CS-3 (1')	Total/NA	Solid	5035	
880-20370-8	CS-4 (1')	Total/NA	Solid	5035	
880-20370-9	CS-5 (1')	Total/NA	Solid	5035	
880-20370-10	CS-6 (1')	Total/NA	Solid	5035	
MB 880-36936/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36936/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36936/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3164-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-3164-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 37136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20370-1	SW-1 (1')	Total/NA	Solid	Total BTEX	
880-20370-2	SW-2 (1')	Total/NA	Solid	Total BTEX	
880-20370-3	SW-3 (1')	Total/NA	Solid	Total BTEX	
880-20370-4	SW-4 (1')	Total/NA	Solid	Total BTEX	
880-20370-5	CS-1 (1')	Total/NA	Solid	Total BTEX	
880-20370-6	CS-2 (1')	Total/NA	Solid	Total BTEX	
880-20370-7	CS-3 (1')	Total/NA	Solid	Total BTEX	
880-20370-8	CS-4 (1')	Total/NA	Solid	Total BTEX	
880-20370-9	CS-5 (1')	Total/NA	Solid	Total BTEX	
880-20370-10	CS-6 (1')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources

Job ID: 880-20370-1

Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

SDG: Eddy Co, NM

GC Semi VOA

Analysis Batch: 36920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20370-1	SW-1 (1')	Total/NA	Solid	8015B NM	36940
880-20370-2	SW-2 (1')	Total/NA	Solid	8015B NM	36940
880-20370-3	SW-3 (1')	Total/NA	Solid	8015B NM	36940
880-20370-4	SW-4 (1')	Total/NA	Solid	8015B NM	36940
880-20370-5	CS-1 (1')	Total/NA	Solid	8015B NM	36940
880-20370-6	CS-2 (1')	Total/NA	Solid	8015B NM	36940
880-20370-7	CS-3 (1')	Total/NA	Solid	8015B NM	36940
880-20370-8	CS-4 (1')	Total/NA	Solid	8015B NM	36940
880-20370-9	CS-5 (1')	Total/NA	Solid	8015B NM	36940
880-20370-10	CS-6 (1')	Total/NA	Solid	8015B NM	36940
MB 880-36940/1-A	Method Blank	Total/NA	Solid	8015B NM	36940
LCS 880-36940/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36940
LCSD 880-36940/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36940
880-20370-1 MS	SW-1 (1')	Total/NA	Solid	8015B NM	36940
880-20370-1 MSD	SW-1 (1')	Total/NA	Solid	8015B NM	36940

Prep Batch: 36940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20370-1	SW-1 (1')	Total/NA	Solid	8015NM Prep	
880-20370-2	SW-2 (1')	Total/NA	Solid	8015NM Prep	
880-20370-3	SW-3 (1')	Total/NA	Solid	8015NM Prep	
880-20370-4	SW-4 (1')	Total/NA	Solid	8015NM Prep	
880-20370-5	CS-1 (1')	Total/NA	Solid	8015NM Prep	
880-20370-6	CS-2 (1')	Total/NA	Solid	8015NM Prep	
880-20370-7	CS-3 (1')	Total/NA	Solid	8015NM Prep	
880-20370-8	CS-4 (1')	Total/NA	Solid	8015NM Prep	
880-20370-9	CS-5 (1')	Total/NA	Solid	8015NM Prep	
880-20370-10	CS-6 (1')	Total/NA	Solid	8015NM Prep	
MB 880-36940/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36940/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36940/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20370-1 MS	SW-1 (1')	Total/NA	Solid	8015NM Prep	
880-20370-1 MSD	SW-1 (1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20370-1	SW-1 (1')	Total/NA	Solid	8015 NM	
880-20370-2	SW-2 (1')	Total/NA	Solid	8015 NM	
880-20370-3	SW-3 (1')	Total/NA	Solid	8015 NM	
880-20370-4	SW-4 (1')	Total/NA	Solid	8015 NM	
880-20370-5	CS-1 (1')	Total/NA	Solid	8015 NM	
880-20370-6	CS-2 (1')	Total/NA	Solid	8015 NM	
880-20370-7	CS-3 (1')	Total/NA	Solid	8015 NM	
880-20370-8	CS-4 (1')	Total/NA	Solid	8015 NM	
880-20370-9	CS-5 (1')	Total/NA	Solid	8015 NM	
880-20370-10	CS-6 (1')	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources
 Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
 SDG: Eddy Co, NM

HPLC/IC

Leach Batch: 36938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20370-1	SW-1 (1')	Soluble	Solid	DI Leach	
880-20370-2	SW-2 (1')	Soluble	Solid	DI Leach	
880-20370-3	SW-3 (1')	Soluble	Solid	DI Leach	
880-20370-4	SW-4 (1')	Soluble	Solid	DI Leach	
880-20370-5	CS-1 (1')	Soluble	Solid	DI Leach	
880-20370-6	CS-2 (1')	Soluble	Solid	DI Leach	
880-20370-7	CS-3 (1')	Soluble	Solid	DI Leach	
880-20370-8	CS-4 (1')	Soluble	Solid	DI Leach	
880-20370-9	CS-5 (1')	Soluble	Solid	DI Leach	
880-20370-10	CS-6 (1')	Soluble	Solid	DI Leach	
MB 880-36938/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36938/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36938/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20370-5 MS	CS-1 (1')	Soluble	Solid	DI Leach	
880-20370-5 MSD	CS-1 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 36946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20370-1	SW-1 (1')	Soluble	Solid	300.0	36938
880-20370-2	SW-2 (1')	Soluble	Solid	300.0	36938
880-20370-3	SW-3 (1')	Soluble	Solid	300.0	36938
880-20370-4	SW-4 (1')	Soluble	Solid	300.0	36938
880-20370-5	CS-1 (1')	Soluble	Solid	300.0	36938
880-20370-6	CS-2 (1')	Soluble	Solid	300.0	36938
880-20370-7	CS-3 (1')	Soluble	Solid	300.0	36938
880-20370-8	CS-4 (1')	Soluble	Solid	300.0	36938
880-20370-9	CS-5 (1')	Soluble	Solid	300.0	36938
880-20370-10	CS-6 (1')	Soluble	Solid	300.0	36938
MB 880-36938/1-A	Method Blank	Soluble	Solid	300.0	36938
LCS 880-36938/2-A	Lab Control Sample	Soluble	Solid	300.0	36938
LCSD 880-36938/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36938
880-20370-5 MS	CS-1 (1')	Soluble	Solid	300.0	36938
880-20370-5 MSD	CS-1 (1')	Soluble	Solid	300.0	36938

Lab Chronicle

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: SW-1 (1')

Lab Sample ID: 880-20370-1

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36936	10/14/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36928	10/14/22 16:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37136	10/17/22 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			37112	10/17/22 10:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36940	10/14/22 09:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 11:00	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36938	10/14/22 09:05	KS	EET MID
Soluble	Analysis	300.0		1			36946	10/14/22 16:47	CH	EET MID

Client Sample ID: SW-2 (1')

Lab Sample ID: 880-20370-2

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36936	10/14/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36928	10/14/22 16:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37136	10/17/22 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			37112	10/17/22 10:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36940	10/14/22 09:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 12:05	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36938	10/14/22 09:05	KS	EET MID
Soluble	Analysis	300.0		1			36946	10/14/22 16:52	CH	EET MID

Client Sample ID: SW-3 (1')

Lab Sample ID: 880-20370-3

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36936	10/14/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36928	10/14/22 17:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37136	10/17/22 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			37112	10/17/22 10:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36940	10/14/22 09:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 12:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36938	10/14/22 09:05	KS	EET MID
Soluble	Analysis	300.0		1			36946	10/14/22 16:57	CH	EET MID

Client Sample ID: SW-4 (1')

Lab Sample ID: 880-20370-4

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	36936	10/14/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36928	10/14/22 17:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37136	10/17/22 11:16	AJ	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: SW-4 (1')

Lab Sample ID: 880-20370-4

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

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			37112	10/17/22 10:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36940	10/14/22 09:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 12:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36938	10/14/22 09:05	KS	EET MID
Soluble	Analysis	300.0		1			36946	10/14/22 17:02	CH	EET MID

Client Sample ID: CS-1 (1')

Lab Sample ID: 880-20370-5

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	36936	10/14/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36928	10/14/22 17:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37136	10/17/22 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			37112	10/17/22 10:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36940	10/14/22 09:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 13:09	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	36938	10/14/22 09:05	KS	EET MID
Soluble	Analysis	300.0		1			36946	10/14/22 17:06	CH	EET MID

Client Sample ID: CS-2 (1')

Lab Sample ID: 880-20370-6

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36936	10/14/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36928	10/14/22 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37136	10/17/22 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			37112	10/17/22 10:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36940	10/14/22 09:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 13:31	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36938	10/14/22 09:05	KS	EET MID
Soluble	Analysis	300.0		1			36946	10/14/22 17:21	CH	EET MID

Client Sample ID: CS-3 (1')

Lab Sample ID: 880-20370-7

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36936	10/14/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36928	10/14/22 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37136	10/17/22 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			37112	10/17/22 10:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36940	10/14/22 09:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 13:52	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Client Sample ID: CS-3 (1')

Lab Sample ID: 880-20370-7

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	36938	10/14/22 09:05	KS	EET MID
Soluble	Analysis	300.0		1			36946	10/14/22 17:26	CH	EET MID

Client Sample ID: CS-4 (1')

Lab Sample ID: 880-20370-8

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	36936	10/14/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36928	10/14/22 18:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37136	10/17/22 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			37112	10/17/22 10:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36940	10/14/22 09:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 14:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	36938	10/14/22 09:05	KS	EET MID
Soluble	Analysis	300.0		1			36946	10/14/22 17:40	CH	EET MID

Client Sample ID: CS-5 (1')

Lab Sample ID: 880-20370-9

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	36936	10/14/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36928	10/14/22 19:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37136	10/17/22 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			37112	10/17/22 10:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36940	10/14/22 09:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 14:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36938	10/14/22 09:05	KS	EET MID
Soluble	Analysis	300.0		1			36946	10/14/22 17:45	CH	EET MID

Client Sample ID: CS-6 (1')

Lab Sample ID: 880-20370-10

Date Collected: 10/13/22 00:00

Matrix: Solid

Date Received: 10/14/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36936	10/14/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36928	10/14/22 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37136	10/17/22 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			37112	10/17/22 10:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36940	10/14/22 09:09	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 14:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36938	10/14/22 09:05	KS	EET MID
Soluble	Analysis	300.0		1			36946	10/14/22 17:50	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Laboratory References:

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Riverboat 12-1 FED COM 1 (04.22.22)

Job ID: 880-20370-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20370-1	SW-1 (1')	Solid	10/13/22 00:00	10/14/22 08:30
880-20370-2	SW-2 (1')	Solid	10/13/22 00:00	10/14/22 08:30
880-20370-3	SW-3 (1')	Solid	10/13/22 00:00	10/14/22 08:30
880-20370-4	SW-4 (1')	Solid	10/13/22 00:00	10/14/22 08:30
880-20370-5	CS-1 (1')	Solid	10/13/22 00:00	10/14/22 08:30
880-20370-6	CS-2 (1')	Solid	10/13/22 00:00	10/14/22 08:30
880-20370-7	CS-3 (1')	Solid	10/13/22 00:00	10/14/22 08:30
880-20370-8	CS-4 (1')	Solid	10/13/22 00:00	10/14/22 08:30
880-20370-9	CS-5 (1')	Solid	10/13/22 00:00	10/14/22 08:30
880-20370-10	CS-6 (1')	Solid	10/13/22 00:00	10/14/22 08:30

Chain of Custody

Work Order No: 20370

Page 1 of 1

Project Manager	Ashton Thielke	Bill to (if different)	Laci Lugo
Company Name	Carmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Warrenfield St Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79701
Phone	432-813-5347	Email	laci.lugo@coterra.com & ashton.thielke@coterra.com

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

Project Name	Riverboat 12-1 Fed Com (04 22 22)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes		
Project Number	1133	Due Date	24 Hr														None NO	DI Water H ₂ O
Project Location	Eddy Co. NM																Cool Cool	MeOH Me
Sampler's Name	AT																HCL. HC	HNO ₃ HN
PO #																	H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT	Temp Blank	Yes	No	Yes	No	Yes	No	Yes	No								H ₃ PO ₄ HP	
Received Intact	Yes	No		Thermometer ID													NaHSO ₄ NABIS	
Cooler Custody Seals	Yes	No		Correction Factor													Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes	No		Temperature Reading													Zn Acetate+NaOH Zn	
Total Containers				Corrected Temperature													NaOH+Ascorbic Acid SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters											Sample Comments
SW-1 (1')	10/13/2022		X			1	BTEX 8021B											
SW-2 (1')	10/13/2022		X			1	TPH 8015M (GRO + DRO + MRO)											
SW-3 (1')	10/13/2022		X			1	Chloride 300 0											
SW-4 (1')	10/13/2022		X			1												
CS-1 (1')	10/13/2022		X			1												
CS-2 (1')	10/13/2022		X			1												
CS-3 (1')	10/13/2022		X			1												
CS-4 (1')	10/13/2022		X			1												
CS-5 (1')	10/13/2022		X			1												
CS-6 (1')	10/13/2022		X			1												



Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	10/14/22			
		830			

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-20370-1

SDG Number: Eddy Co, NM

Login Number: 20370

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 155910

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 155910
	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 #NAPP2211236521 RIVERBOAT 12-1 FEDERAL COM BATTERY, thank you. This closure is approved.	1/13/2023