



SITE INFORMATION

Closure Report
West Corbin Fed #16 SWD
Incident ID: NAPP2302642924
Lea County, New Mexico
Unit H Sec 18 T18S R33E
32.748797°, -103.695662°

Crude Oil Release
Point of Release: Pin Hole on Poly Flowline
Release Date: 01/21/23
Volume Released: 16 Barrels of Crude Oil
Volume Recovered: 15 Barrels of Crude Oil

CARMONA RESOURCES



Prepared for:
EOG Resources
5509 Champions Drive
Midland, TX 79706

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



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April 10, 2023

New Mexico Oil Conservation Division
1220 South St, Francis Drive
Santa Fe, NM 87505

**Re: Closure Report
West Corbin Fed #16 SWD
EOG Resources Inc.
Site Location: Unit H, S18, T18S, R33E
(Lat 32.748797°, Long -103.695662°)
Lea County, New Mexico**

To whom it may concern:

On behalf of EOG Resources Inc. (EOG), Carmona Resources, LLC has prepared this letter to document the West Corbin Fed #16 SWD site activities. The site is located at 32.748797°, -103.695662° within Unit H, S18, T18S, R33E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on January 21, 2023, due to a pinhole in a poly flowline. It released approximately sixteen (16) barrels of crude oil, and approximately fifteen (15) barrels of crude oil were recovered. The impacted area occurred on the pad and measured approximately 20'x12', shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source is within a 0.50-mile radius of the location. The nearest identified well is approximately 1.39 miles Northeast of the site in S08, T18S, R33E and was drilled in 1967. The well has a reported depth to groundwater of 100' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

On August 16, 2019, Scarborough Drilling, Inc was onsite to drill a groundwater determination bore to 60' below ground surface and within a 0.50-mile radius of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 60' below the surface. The coordinates for the groundwater determination bore are 32.744427 °, -103.695234 °. See Appendix D for the driller's log.

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: 1,000 mg/kg (GRO + DRO).
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- Chloride: 10,000 mg/kg.

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



4.0 Site Assessment Activities

Trenching Activities

On March 1, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of one (1) trench (T-1) and four (4) horizontal sample points (H-1 through H-4) were advanced to depths ranging from the surface to 6' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. The sample locations are shown in Figure 3. Refer to Table 1.

The area of T-1 showed high TPH concentrations ranging from 108 mg/kg to 8,180 mg/kg from surface to 4.0' bgs, then declined with depth. The area of T-1 also showed high total BTEX concentrations ranging from 128 mg/kg to 152 mg/kg from surface to 1.5' bgs. The area of T-1 was below the regulatory requirements for chloride.

Vertical and horizontal delineation was achieved for all sample points collected. Refer to Table 1.

5.0 Remediation Activities

Before the remediation activities occurred, the polyline was moved to gain access to the area of concern. Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on March 27, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of two (2) floor confirmation samples were collected (CS-1 and CS-2), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 64 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

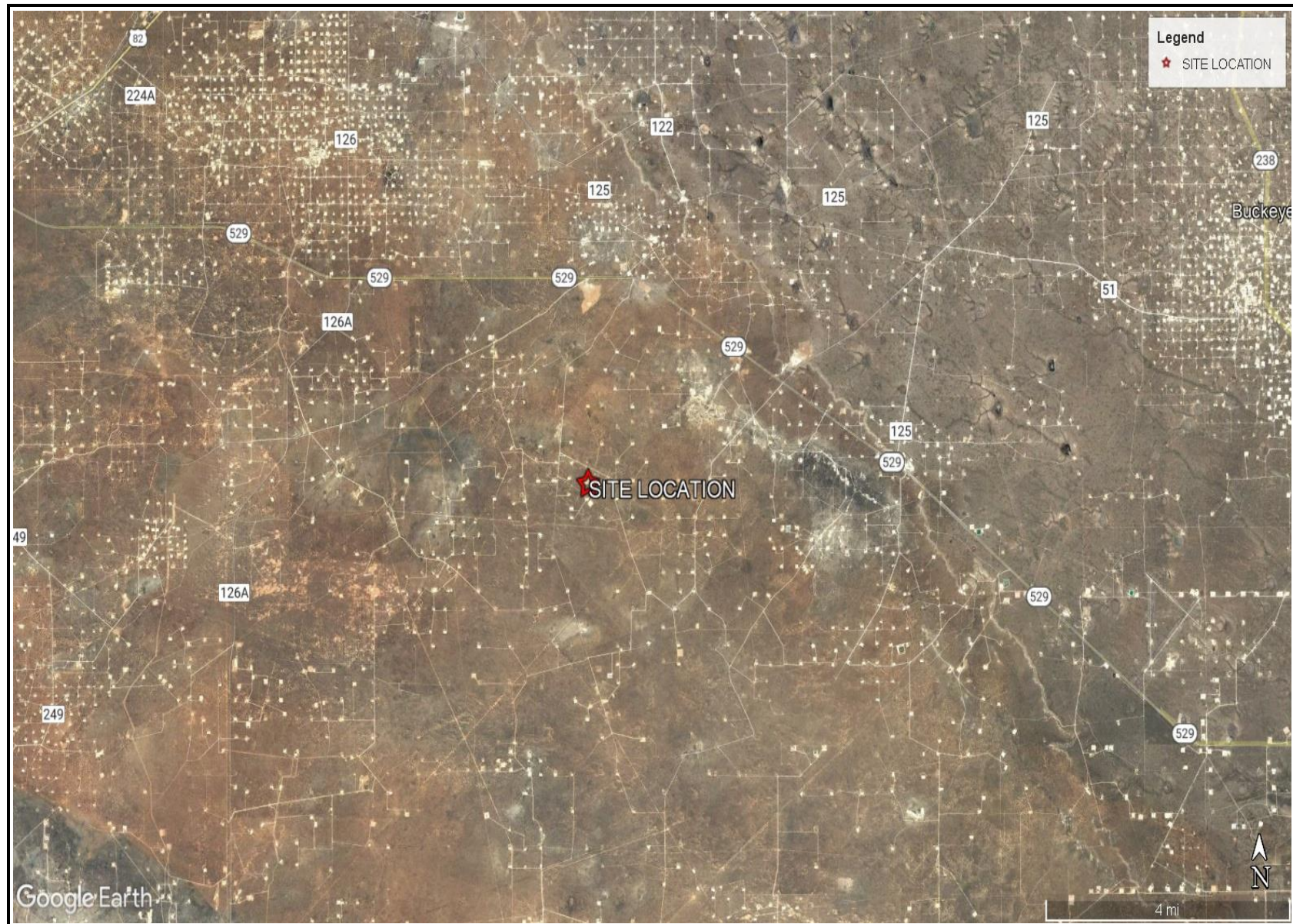
Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES

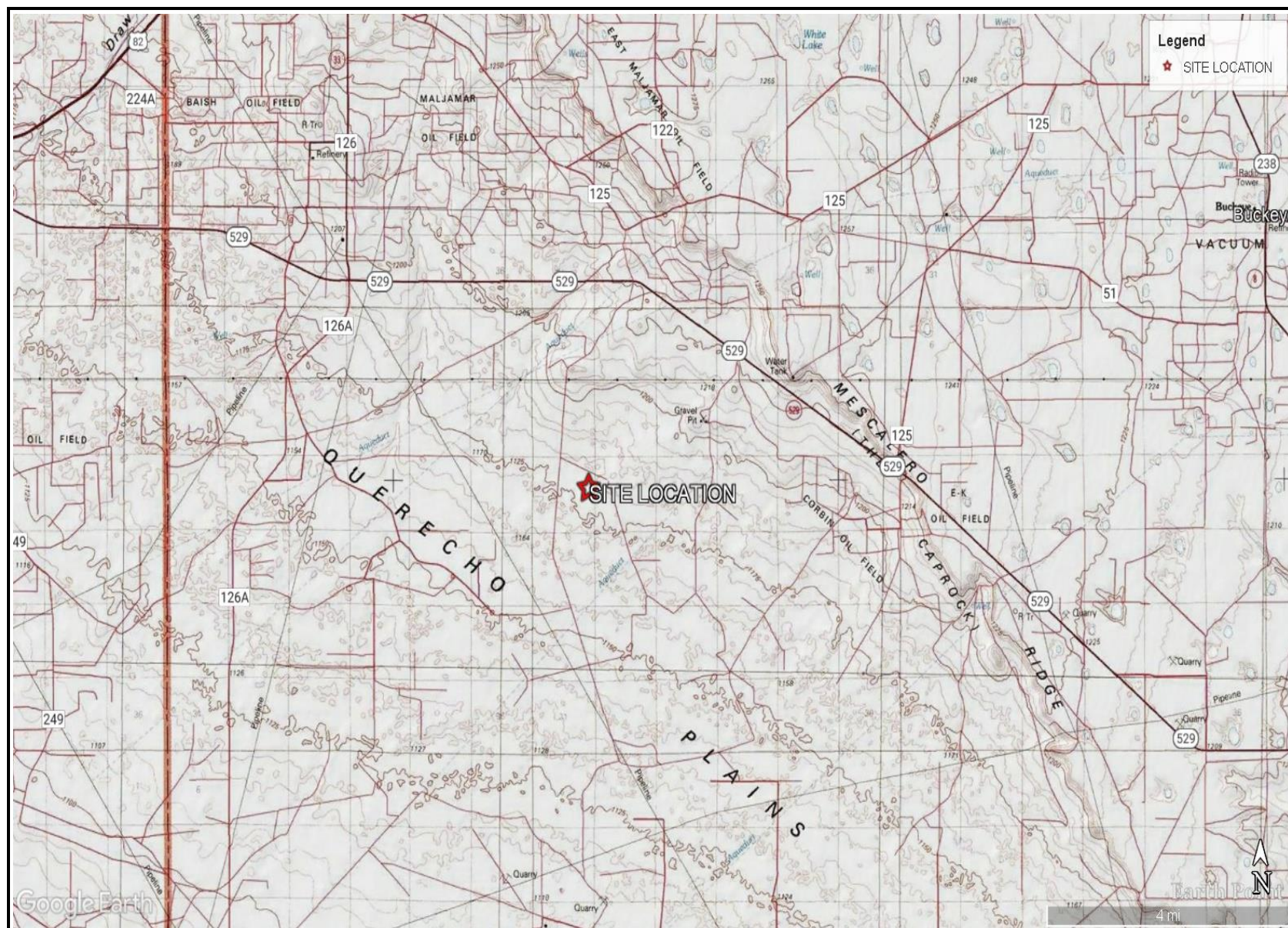




OVERVIEW MAP
EOG RESOURCES
WEST CORBIN FED #16 SWD
LEA COUNTY, NEW MEXICO
32.748797, -103.695662



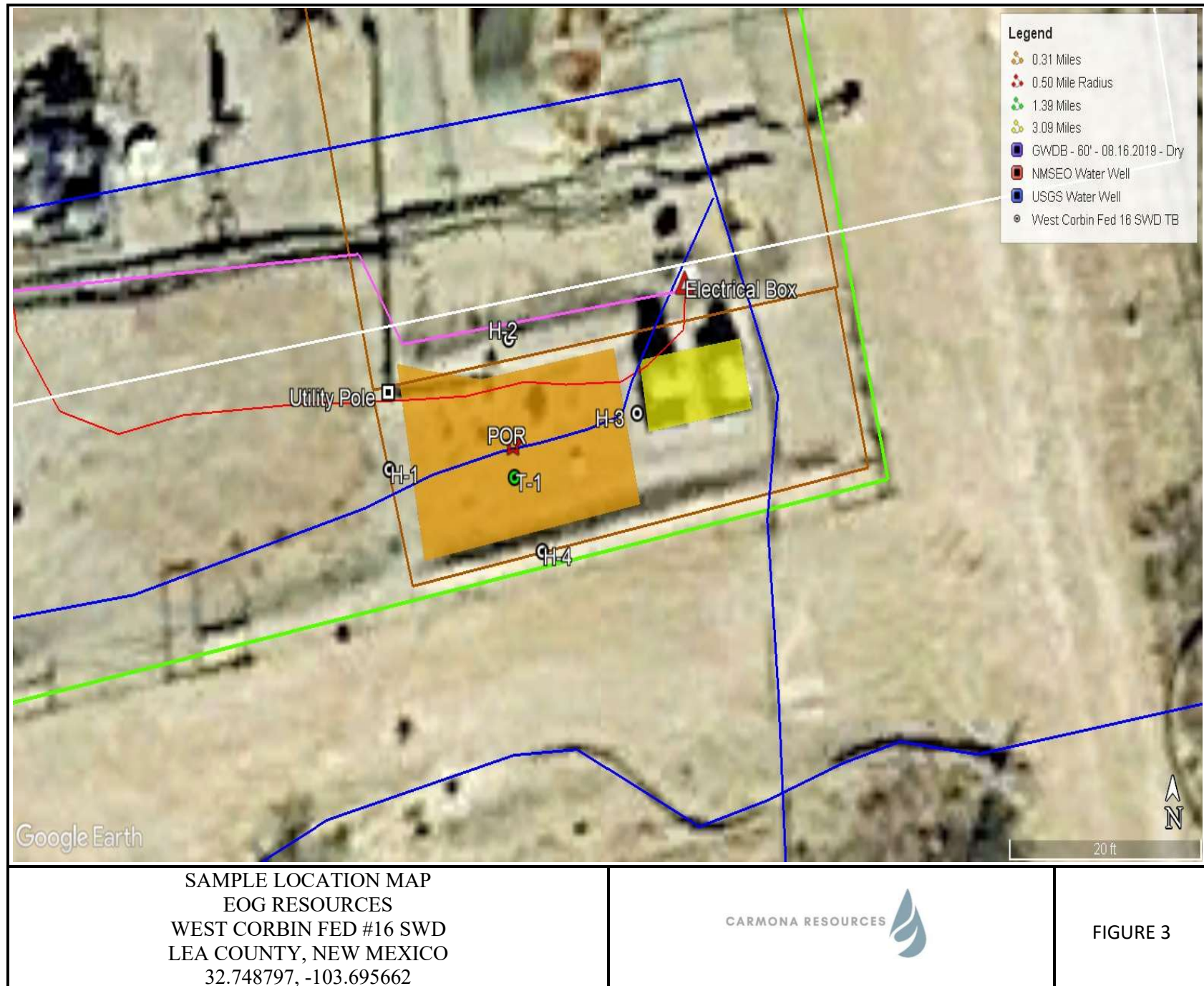
FIGURE 1

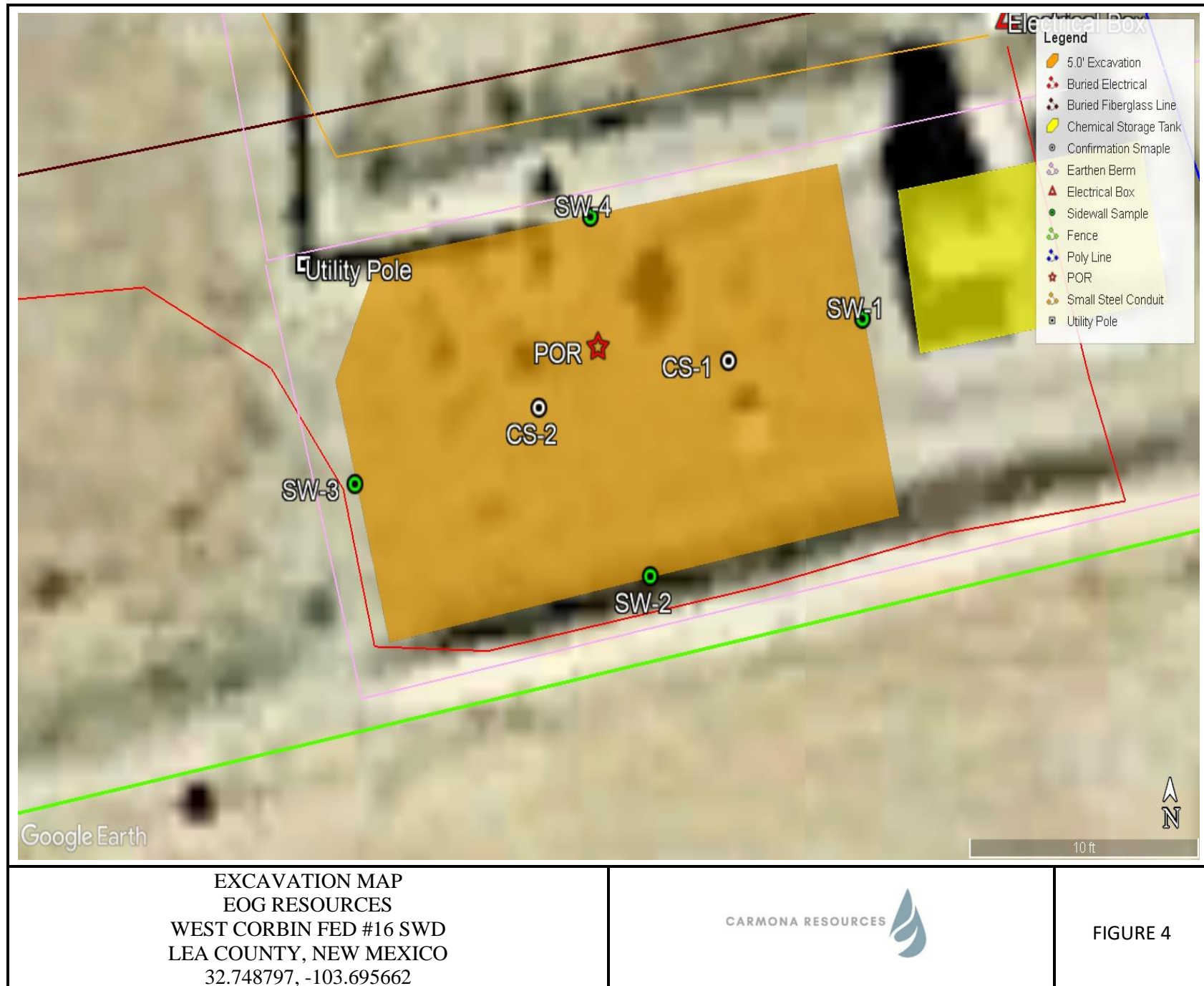


TOPOGRAPHIC MAP
EOG RESOURCES
WEST CORBIN FED #16 SWD
LEA COUNTY, NEW MEXICO
32.748797, -103.695662



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
EOG
West Corbin Fed #16 SWD Release
Lea 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	ORO	Total TPH						
T-1	3/1/2023	0-1.0	1,400	2,070	<250	3,470	4.46	35.6	38.9	73.1	152	127
		1.5	4,720	3,460	<250	8,180	8.14	2.06	55.9	86.9	128	55.1
		2.0	103	361	<49.9	464	1.35	6.04	2.73	3.28	13.4	73.8
		3.0	<49.9	108	<49.9	108	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	76.2
		4.0	<49.9	168	<49.9	168	<0.00199	0.00699	0.00878	0.0199	0.0357	68.4
		5.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	0.00283	<0.00398	0.00532	74.6
		6.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	48.8
H-1	3/1/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	53.9
H-2	3/1/2023	0-0.5	<50.0	56.5	<50.0	56.5	<0.00199	0.0460	0.0544	0.105	0.206	236
H-3	3/1/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	93.9
H-4	3/1/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	105
Regulatory Criteria^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(H) Horizontal

(T) Trench


 Removed

Table 2
EOG Resources
West Corbin Federal SWD #16 Release
Lea 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	3/29/2023	5.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-2	3/29/2023	5.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-1	3/29/2023	5.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	3/29/2023	5.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-3	3/29/2023	5.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-4	3/29/2023	5.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
<i>Regulatory Criteria^A</i>			1,000 mg/kg			2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	10,000 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

EOG Resources

Photograph No. 1

Facility: West Corbin Fed #16 SWD

County: Lea County, New Mexico

Description:

View West of the area of concern.



Photograph No. 2

Facility: West Corbin Fed #16 SWD

County: Lea County, New Mexico

Description:

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



Photograph No. 3

Facility: West Corbin Fed #16 SWD

County: Lea County, New Mexico

Description:

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



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	nAPP2302642924
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) nAPP2302642924
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.748797° Longitude -103.695662°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name West Corbin Fed #16 SWD	Site Type SWD
Date Release Discovered 1/21/23	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	18	18S	33E	Lea

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) 16	Volume Recovered (bbls) 15
<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: The lease operator arrived on site and discovered a pin hole in the poly flowline. This released approximately 16 bbls of crude oil inside unlined containment with 15 bbls recovered.

Incident ID	
District RP	
Facility ID	
Application ID	

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

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: <u>Todd Wells</u> Title: <u>Environmental Specialist</u> Signature: <u>Todd Wells</u> Date: <u>1/26/23</u> email: <u>Todd_Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 04/19/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 04/19/2023

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

Closure Approved by: Jennifer Nobui Date: 05/12/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

From: Mike Carmona
Sent: Monday, April 3, 2023 3:27 PM
To: Conner Moehring
Subject: Fwd: [EXTERNAL] EOG - West Corbin Fed #16 SWD - Sampling Notification -Incident No-nAPP2302642924

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

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, March 27, 2023 9:10:23 AM
To: Mike Carmona <Mcarmona@carmonaresources.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: RE: [EXTERNAL] EOG - West Corbin Fed #16 SWD - Sampling Notification -Incident No-nAPP2302642924

Mike,

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

JH

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



From: Mike Carmona <Mcarmona@carmonaresources.com>
Sent: Monday, March 27, 2023 5:13 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Todd Wells <Todd_Wells@eogresources.com>; Conner Moehring
<Cmoehring@carmonaresources.com>
Subject: [EXTERNAL] EOG - West Corbin Fed #16 SWD - Sampling Notification -Incident No-
nAPP2302642924

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

Good Morning,

On behalf of EOG, Carmona Resources will collect confirmation samples for the below-referenced site on 03/29/23 around 10:00 a.m. Please let me know if you have any questions.

West Corbin Fed #16 SWD
Incident No- nAPP2302642924

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

APPENDIX D

CARMONA RESOURCES

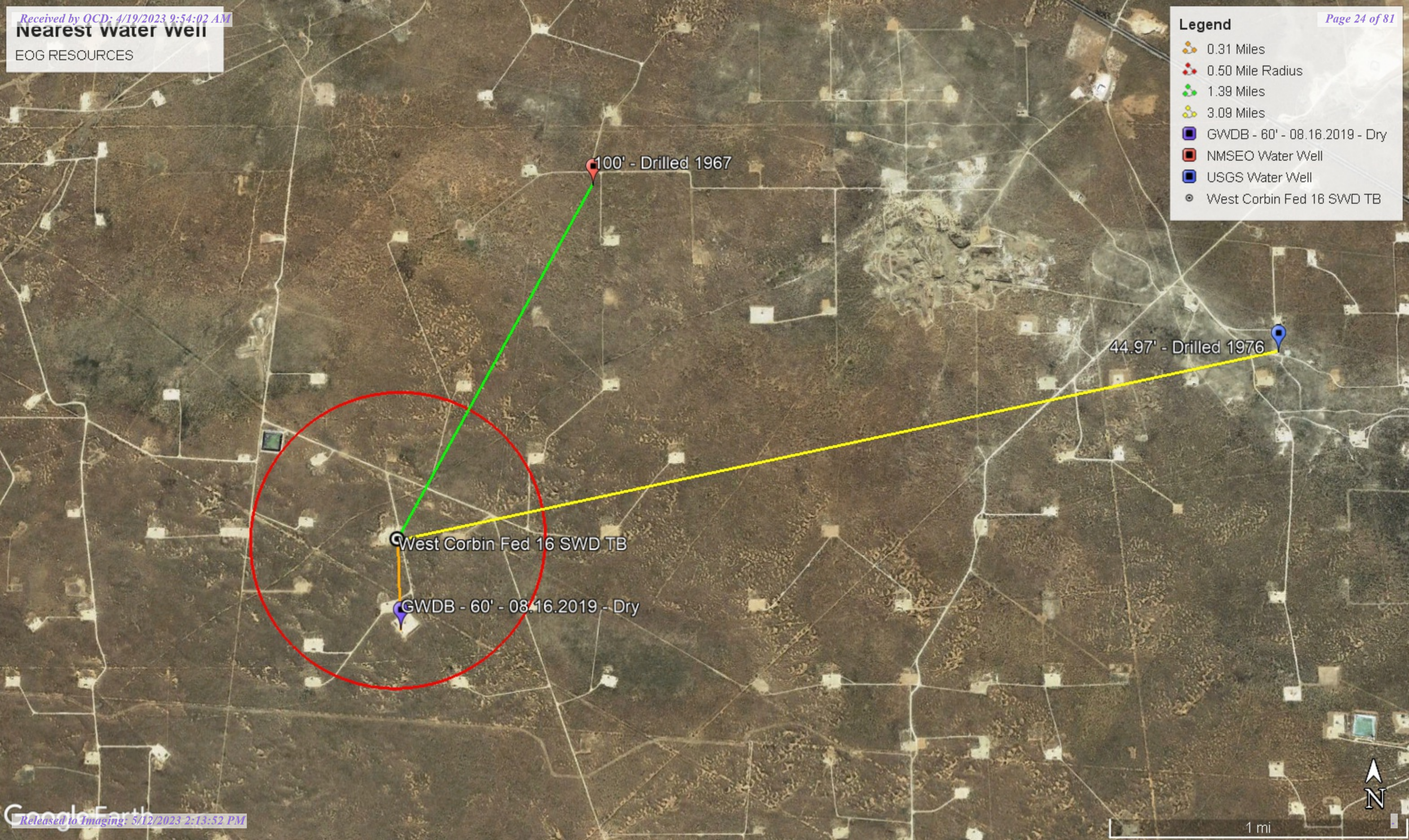


Nearest water well

EOG RESOURCES

Legend

- 0.31 Miles
- 0.50 Mile Radius
- 1.39 Miles
- 3.09 Miles
- GWDB - 60' - 08.16.2019 - Dry
- NMSEO Water Well
- USGS Water Well
- West Corbin Fed 16 SWD TB



Low Karst

EOG RESOURCES

Legend



Low



West Corbin Fed 16 SWD TB

West Corbin Fed 16 SWD TB



1 mi

Borehole ID:
Borehole 1 (BH-1)

Soil Drilling Log with
Field Testing Results

Project Name : EOG Cholla Fed Com #1
Project No. : 212C-MD-01810
Location : Lea County, New Mexico
Coordinates : 32.744427°, -103.695234°

Date : Friday, August 16, 2019
Sampler : Joe Tyler
Driller : Scarborough Drilling
Method : Air Rotary

Depth (ft.)	WL	Soil Description	Discoloration /Staining	Odors /Fumes	OVM Field Test (ppm)	Chloride Field Test (ppm)	Field Titration Test (ppm)
0		Brown silty sand	Stained	Heavy odor	1,615	-	-
		↓	Stained	Heavy odor	4,751	-	-
5		Brown silty sand w/ gravel		Heavy odor	>15,000	-	-
		↓		Heavy odor	1,405	-	-
10		Brown silty sand		Heavy odor	18.2	-	-
		↓		Heavy odor	160.1	-	-
15		Brown silty sand w/ light gravel		Heavy odor	135.6	131	160
		↓		Heavy odor	144.1	-	-
20				Heavy odor	209.1	153	200
		↓		Heavy odor	31.9	-	-
25		Brown sand w/ heavy gravel		Heavy odor	26.4	-	-
		↓		Low odor	15.5	-	-
30					33.0	-	-
		↓			71.2	188	200
35		Brown silty sand w/ light gravel			24.6	169	160
		↓					
40							
		↓					
45							
		↓					
50							
		↓					
55							
		↓					
60		Total Depth = 60 feet					

Comments:

* H.O. = Heavy Odor

* H.S. = Heavy Staining

No Groundwater detected at 60' below surface

* L.O. = Low Odor

* L.S. = Low Staining

* O.L. = Over Readable Limit



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
L 06131	L	LE		3	1	2	08	18S	33E	623241	3626167*	2224	194	100	94
L 03454	L	LE			2	2	30	18S	33E	622200	3621422*	2772	100	35	65
CP 00758 POD1	CP	LE				3	04	18S	33E	624345	3626886*	3434	250		
CP 00546 POD1	CP	LE		2	2	4	09	18S	33E	625464	3625597*	3542	90	70	20

Average Depth to Water: **68 feet**

Minimum Depth: **35 feet**

Maximum Depth: **100 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 622210.75

Northing (Y): 3624194.93

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.

7/25/22 9:04 AM

Page 1 of 1

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)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
L	06131	3	1	2	08	18S	33E	623241	3626167*

Driller License: 99

Driller Company: O.R. MUSSELWHITE WATER WELL SE

Driller Name:

Drill Start Date: 04/27/1967

Drill Finish Date: 04/29/1967

Plug Date:

Log File Date: 05/02/1967

PCW Rev Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 194 feet

Depth Water: 100 feet

Water Bearing Stratifications:

Top	Bottom	Description
130	135	Sandstone/Gravel/Conglomerate
185	193	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
150	194

*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.

7/25/22 8:54 AM

POINT OF DIVERSION SUMMARY



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 324519103383001

Minimum number of levels = 1

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

USGS 324519103383001 18S.33E.10.44211

Lea County, New Mexico

Latitude 32°45'29", Longitude 103°38'37" NAD27

Land-surface elevation 3,985.00 feet above NGVD29

The depth of the well is 60 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
1971-02-09			D 62610		3943.37	NGVD29	1		Z	
1971-02-09			D 62611		3945.00	NAVD88	1		Z	
1971-02-09			D 72019	41.63			1		Z	
1976-02-18			D 62610		3940.25	NGVD29	1		Z	
1976-02-18			D 62611		3941.88	NAVD88	1		Z	
1976-02-18			D 72019	44.75			1		Z	

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

Section	Code	Description
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	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

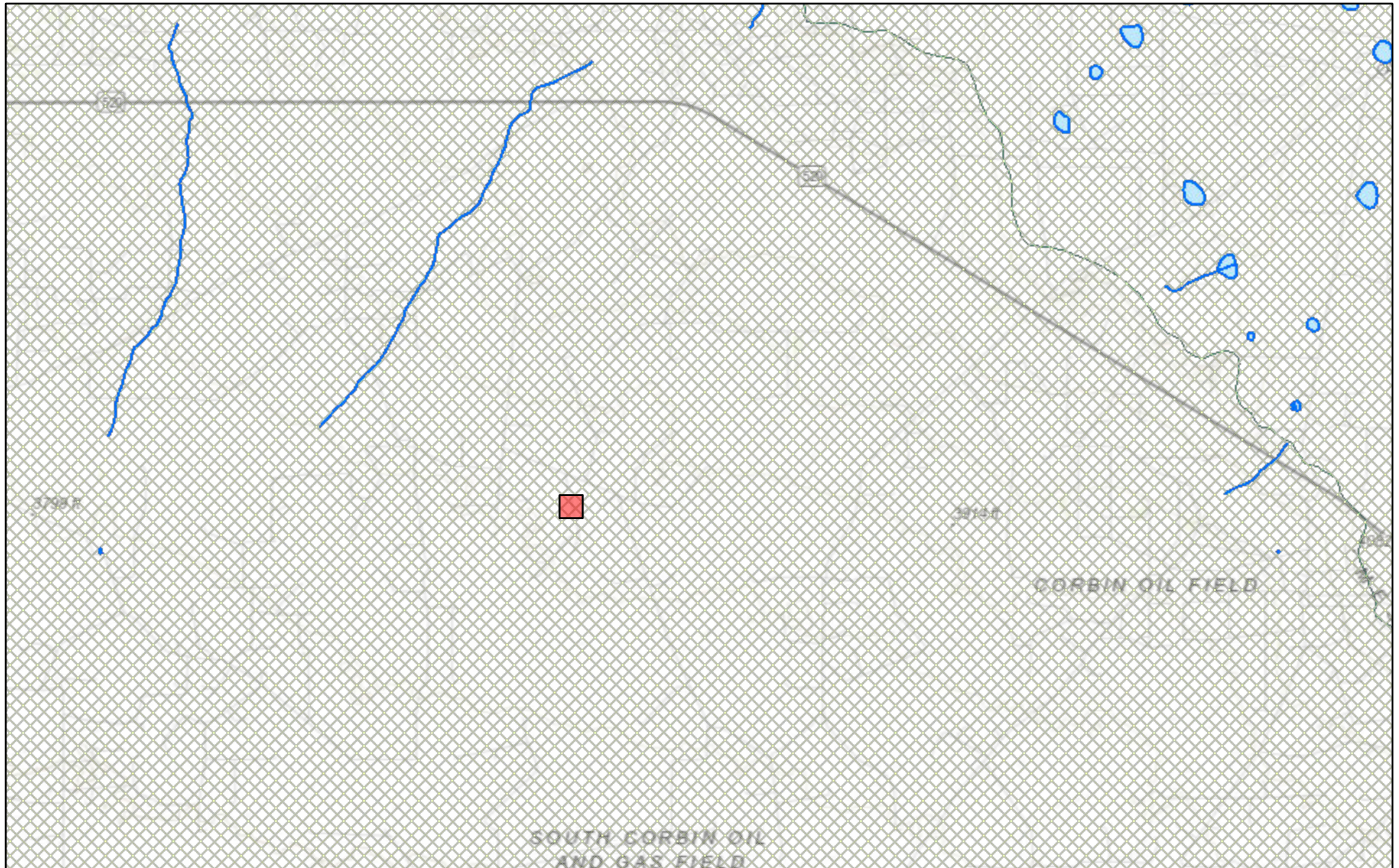
[Questions about sites/data?](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

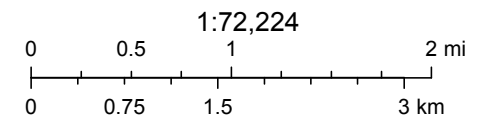


Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2022-07-25 11:00:04 EDT
0.32 0.26 nadww02

New Mexico NFHL Data



July 25, 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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/9/2023 1:50:55 PM

JOB DESCRIPTION

West Corbin Federal SWD #16 Release
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-25379-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization



Generated
3/9/2023 1:50:55 PM

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

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Laboratory Job ID: 880-25379-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
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.

GC Semi VOA

Qualifier	Qualifier Description
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: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Job ID: 880-25379-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-25379-1****Receipt**

The samples were received on 3/2/2023 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.6°C

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: T-1 (0-1') (880-25379-1), T-1 (1.5') (880-25379-2), T-1 (2') (880-25379-3), T-1 (3') (880-25379-4), T-1 (4') (880-25379-5), T-1 (5') (880-25379-6), T-1 (6') (880-25379-7), H-1 (0-0.5') (880-25379-8), H-2 (0-0.5') (880-25379-9), H-3 (0-0.5') (880-25379-10) and H-4 (0-0.5') (880-25379-11). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with analysis.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-47743 and analytical batch 880-47854 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-1 (0-1') (880-25379-1), T-1 (1.5') (880-25379-2) and (880-25414-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-1 (0-1') (880-25379-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-1 (1.5') (880-25379-2), H-3 (0-0.5') (880-25379-10), (CCV 880-48085/33), (LCS 880-48014/1-A), (LCSD 880-48014/2-A), (880-25537-A-41-I), (880-25537-A-41-G MS) and (880-25537-A-41-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-25379-1

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.46		0.0498		mg/Kg		03/03/23 12:51	03/06/23 13:34	25
Toluene	35.6		0.398		mg/Kg		03/08/23 09:05	03/08/23 14:14	200
Ethylbenzene	38.9		0.398		mg/Kg		03/08/23 09:05	03/08/23 14:14	200
m-Xylene & p-Xylene	49.8		0.797		mg/Kg		03/08/23 09:05	03/08/23 14:14	200
o-Xylene	23.3		0.398		mg/Kg		03/08/23 09:05	03/08/23 14:14	200
Xylenes, Total	73.1		0.797		mg/Kg		03/08/23 09:05	03/08/23 14:14	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	594	S1+	70 - 130	03/03/23 12:51	03/06/23 13:34	25
1,4-Difluorobenzene (Surr)	74		70 - 130	03/03/23 12:51	03/06/23 13:34	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	152		0.797		mg/Kg			03/07/23 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3470		250		mg/Kg			03/06/23 12:05	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	1400		250		mg/Kg		03/03/23 09:08	03/03/23 17:37	5
Diesel Range Organics (Over C10-C28)	2070		250		mg/Kg		03/03/23 09:08	03/03/23 17:37	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		03/03/23 09:08	03/03/23 17:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/03/23 09:08	03/03/23 17:37	5
o-Terphenyl	104		70 - 130	03/03/23 09:08	03/03/23 17:37	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		5.05		mg/Kg			03/05/23 10:53	1

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-25379-2

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.14		0.398		mg/Kg		03/08/23 09:05	03/08/23 14:34	200
Toluene	2.06		0.0497		mg/Kg		03/03/23 12:51	03/06/23 13:54	25
Ethylbenzene	55.9		0.398		mg/Kg		03/08/23 09:05	03/08/23 14:34	200
m-Xylene & p-Xylene	61.7		0.797		mg/Kg		03/08/23 09:05	03/08/23 14:34	200
o-Xylene	0.452		0.0497		mg/Kg		03/03/23 12:51	03/06/23 13:54	25
Xylenes, Total	86.9		0.797		mg/Kg		03/08/23 09:05	03/08/23 14:34	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	683	S1+	70 - 130	03/03/23 12:51	03/06/23 13:54	25
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	03/03/23 12:51	03/06/23 13:54	25

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-25379-2

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	128		0.797		mg/Kg			03/07/23 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8180		250		mg/Kg			03/06/23 12:05	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	4720		250		mg/Kg		03/03/23 09:08	03/03/23 16:11	5
Diesel Range Organics (Over C10-C28)	3460		250		mg/Kg		03/03/23 09:08	03/03/23 16:11	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		03/03/23 09:08	03/03/23 16:11	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				03/03/23 09:08	03/03/23 16:11	5
o-Terphenyl	92		70 - 130				03/03/23 09:08	03/03/23 16:11	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.1		5.02		mg/Kg			03/05/23 10:59	1

Client Sample ID: T-1 (2')

Lab Sample ID: 880-25379-3

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.35		0.0499		mg/Kg		03/03/23 12:51	03/06/23 14:16	25
Toluene	6.04		0.0499		mg/Kg		03/03/23 12:51	03/06/23 14:16	25
Ethylbenzene	2.73		0.0499		mg/Kg		03/03/23 12:51	03/06/23 14:16	25
m-Xylene & p-Xylene	2.08		0.0998		mg/Kg		03/03/23 12:51	03/06/23 14:16	25
o-Xylene	1.20		0.0499		mg/Kg		03/03/23 12:51	03/06/23 14:16	25
Xylenes, Total	3.28		0.0998		mg/Kg		03/03/23 12:51	03/06/23 14:16	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				03/03/23 12:51	03/06/23 14:16	25
1,4-Difluorobenzene (Surr)	110		70 - 130				03/03/23 12:51	03/06/23 14:16	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	13.4		0.0998		mg/Kg			03/07/23 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	464		49.9		mg/Kg			03/06/23 12:05	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	103		49.9		mg/Kg		03/03/23 09:08	03/03/23 16:32	1
Diesel Range Organics (Over C10-C28)	361		49.9		mg/Kg		03/03/23 09:08	03/03/23 16:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (2')

Lab Sample ID: 880-25379-3

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/03/23 09:08	03/03/23 16:32	1
o-Terphenyl	105		70 - 130				03/03/23 09:08	03/03/23 16:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.8		5.00		mg/Kg			03/05/23 11:18	1

Client Sample ID: T-1 (3')

Lab Sample ID: 880-25379-4

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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		03/03/23 11:55	03/06/23 12:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/03/23 11:55	03/06/23 12:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/03/23 11:55	03/06/23 12:31	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		03/03/23 11:55	03/06/23 12:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/03/23 11:55	03/06/23 12:31	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		03/03/23 11:55	03/06/23 12:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				03/03/23 11:55	03/06/23 12:31	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/03/23 11:55	03/06/23 12:31	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			03/07/23 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	108		49.9		mg/Kg			03/06/23 12:05	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		03/03/23 09:08	03/03/23 16:54	1
Diesel Range Organics (Over C10-C28)	108		49.9		mg/Kg		03/03/23 09:08	03/03/23 16:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/03/23 09:08	03/03/23 16:54	1
o-Terphenyl	103		70 - 130				03/03/23 09:08	03/03/23 16:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.2		4.97		mg/Kg			03/05/23 11:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (4')

Lab Sample ID: 880-25379-5

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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		03/03/23 11:55	03/06/23 12:52	1
Toluene	0.00699		0.00199		mg/Kg		03/03/23 11:55	03/06/23 12:52	1
Ethylbenzene	0.00878		0.00199		mg/Kg		03/03/23 11:55	03/06/23 12:52	1
m-Xylene & p-Xylene	0.0127	++	0.00398		mg/Kg		03/03/23 11:55	03/06/23 12:52	1
o-Xylene	0.00718		0.00199		mg/Kg		03/03/23 11:55	03/06/23 12:52	1
Xylenes, Total	0.0199	++	0.00398		mg/Kg		03/03/23 11:55	03/06/23 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/03/23 11:55	03/06/23 12:52	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/03/23 11:55	03/06/23 12:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0357		0.00398		mg/Kg			03/07/23 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	168		49.9		mg/Kg			03/06/23 12:05	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		03/03/23 09:08	03/03/23 17:15	1
Diesel Range Organics (Over C10-C28)	168		49.9		mg/Kg		03/03/23 09:08	03/03/23 17:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	03/03/23 09:08	03/03/23 17:15	1
o-Terphenyl	93		70 - 130	03/03/23 09:08	03/03/23 17:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.4		5.00		mg/Kg			03/05/23 11:43	1

Client Sample ID: T-1 (5')

Lab Sample ID: 880-25379-6

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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		03/03/23 11:55	03/06/23 13:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/03/23 11:55	03/06/23 13:12	1
Ethylbenzene	0.00283		0.00199		mg/Kg		03/03/23 11:55	03/06/23 13:12	1
m-Xylene & p-Xylene	<0.00398	U ++	0.00398		mg/Kg		03/03/23 11:55	03/06/23 13:12	1
o-Xylene	0.00249		0.00199		mg/Kg		03/03/23 11:55	03/06/23 13:12	1
Xylenes, Total	<0.00398	U ++	0.00398		mg/Kg		03/03/23 11:55	03/06/23 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/03/23 11:55	03/06/23 13:12	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/03/23 11:55	03/06/23 13:12	1

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Client Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (5')

Lab Sample ID: 880-25379-6

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00532		0.00398		mg/Kg			03/07/23 13:15	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			03/06/23 12:05	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		03/03/23 09:08	03/03/23 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/23 09:08	03/03/23 19:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/23 09:08	03/03/23 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/03/23 09:08	03/03/23 19:25	1
o-Terphenyl	99		70 - 130				03/03/23 09:08	03/03/23 19:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.6		4.99		mg/Kg			03/05/23 11:49	1

Client Sample ID: T-1 (6')

Lab Sample ID: 880-25379-7

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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		03/03/23 11:55	03/06/23 13:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/03/23 11:55	03/06/23 13:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/03/23 11:55	03/06/23 13:32	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		03/03/23 11:55	03/06/23 13:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/03/23 11:55	03/06/23 13:32	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		03/03/23 11:55	03/06/23 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				03/03/23 11:55	03/06/23 13:32	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/03/23 11:55	03/06/23 13:32	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			03/07/23 13:15	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			03/06/23 12:05	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		03/03/23 09:08	03/03/23 18:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 18:21	1

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Client Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (6')

Lab Sample ID: 880-25379-7

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/03/23 09:08	03/03/23 18:21	1
o-Terphenyl	108		70 - 130				03/03/23 09:08	03/03/23 18:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.8		4.95		mg/Kg			03/05/23 11:55	1

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

Lab Sample ID: 880-25379-8

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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		03/03/23 11:55	03/06/23 13:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 13:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 13:53	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		03/03/23 11:55	03/06/23 13:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 13:53	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		03/03/23 11:55	03/06/23 13:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				03/03/23 11:55	03/06/23 13:53	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/03/23 11:55	03/06/23 13:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/23 13:15	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			03/06/23 12:05	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		03/03/23 09:08	03/03/23 17:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 17:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/03/23 09:08	03/03/23 17:59	1
o-Terphenyl	100		70 - 130				03/03/23 09:08	03/03/23 17:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.9		4.97		mg/Kg			03/05/23 12:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-25379-9

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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		03/03/23 11:55	03/06/23 17:30	1
Toluene	0.0460		0.00199		mg/Kg		03/03/23 11:55	03/06/23 17:30	1
Ethylbenzene	0.0544		0.00199		mg/Kg		03/03/23 11:55	03/06/23 17:30	1
m-Xylene & p-Xylene	0.0594	++	0.00398		mg/Kg		03/03/23 11:55	03/06/23 17:30	1
o-Xylene	0.0457		0.00199		mg/Kg		03/03/23 11:55	03/06/23 17:30	1
Xylenes, Total	0.105	++	0.00398		mg/Kg		03/03/23 11:55	03/06/23 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/03/23 11:55	03/06/23 17:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/03/23 11:55	03/06/23 17:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.206		0.00398		mg/Kg			03/07/23 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.5		50.0		mg/Kg			03/06/23 12:05	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		03/03/23 09:08	03/03/23 19:04	1
Diesel Range Organics (Over C10-C28)	56.5		50.0		mg/Kg		03/03/23 09:08	03/03/23 19:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/23 09:08	03/03/23 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/03/23 09:08	03/03/23 19:04	1
o-Terphenyl	93		70 - 130				03/03/23 09:08	03/03/23 19:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		4.98		mg/Kg			03/05/23 12:07	1

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

Lab Sample ID: 880-25379-10

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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		03/03/23 11:55	03/06/23 18:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/03/23 11:55	03/06/23 18:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/03/23 11:55	03/06/23 18:24	1
m-Xylene & p-Xylene	<0.00398	U ++	0.00398		mg/Kg		03/03/23 11:55	03/06/23 18:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/03/23 11:55	03/06/23 18:24	1
Xylenes, Total	<0.00398	U ++	0.00398		mg/Kg		03/03/23 11:55	03/06/23 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/03/23 11:55	03/06/23 18:24	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/03/23 11:55	03/06/23 18:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-25379-10

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/23 13:15	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			03/06/23 12:05	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		03/03/23 09:08	03/03/23 15:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 15:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/03/23 09:08	03/03/23 15:27	1
o-Terphenyl	89		70 - 130				03/03/23 09:08	03/03/23 15:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.9		4.98		mg/Kg			03/05/23 12:13	1

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

Lab Sample ID: 880-25379-11

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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		03/03/23 11:55	03/06/23 18:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 18:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 18:45	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		03/03/23 11:55	03/06/23 18:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 18:45	1
Xylenes, Total	<0.00401	U **	0.00401		mg/Kg		03/03/23 11:55	03/06/23 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				03/03/23 11:55	03/06/23 18:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/03/23 11:55	03/06/23 18:45	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			03/07/23 13:15	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			03/06/23 12:05	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		03/03/23 09:08	03/03/23 18:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 18:42	1

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Client Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-25379-11

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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)	<49.9	U	49.9		mg/Kg		03/03/23 09:08	03/03/23 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	03/03/23 09:08	03/03/23 18:42	1
o-Terphenyl	81		70 - 130	03/03/23 09:08	03/03/23 18:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		5.00		mg/Kg			03/05/23 12:19	1

Surrogate Summary

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-25091-A-29-D MS	Matrix Spike	103	79
880-25091-A-29-E MSD	Matrix Spike Duplicate	94	106
880-25379-1	T-1 (0-1')	594 S1+	74
880-25379-2	T-1 (1.5')	683 S1+	64 S1-
880-25379-3	T-1 (2')	114	110
880-25379-4	T-1 (3')	113	105
880-25379-5	T-1 (4')	110	105
880-25379-6	T-1 (5')	114	107
880-25379-7	T-1 (6')	115	106
880-25379-8	H-1 (0-0.5')	117	107
880-25379-9	H-2 (0-0.5')	111	103
880-25379-10	H-3 (0-0.5')	114	108
880-25379-11	H-4 (0-0.5')	93	99
880-25400-A-1-E MS	Matrix Spike	119	114
880-25400-A-1-F MSD	Matrix Spike Duplicate	117	104
880-25414-A-1-A MS	Matrix Spike	112	100
880-25414-A-1-B MSD	Matrix Spike Duplicate	120	106
880-25537-A-41-G MS	Matrix Spike	144 S1+	67 S1-
880-25537-A-41-H MSD	Matrix Spike Duplicate	151 S1+	76
LCS 880-47724/1-A	Lab Control Sample	115	109
LCS 880-47743/1-A	Lab Control Sample	98	85
LCS 880-48014/1-A	Lab Control Sample	153 S1+	93
LCS 880-48088/1-A	Lab Control Sample	99	84
LCSD 880-47724/2-A	Lab Control Sample Dup	111	109
LCSD 880-47743/2-A	Lab Control Sample Dup	98	94
LCSD 880-48014/2-A	Lab Control Sample Dup	130	92
LCSD 880-48088/2-A	Lab Control Sample Dup	91	112
MB 880-47724/5-A	Method Blank	107	102
MB 880-47743/5-A	Method Blank	91	86
MB 880-48014/5-A	Method Blank	83	72
MB 880-48088/5-A	Method Blank	101	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-25349-A-1-B MS	Matrix Spike	93	84
880-25349-A-1-C MSD	Matrix Spike Duplicate	102	88
880-25379-1	T-1 (0-1')	96	104
880-25379-2	T-1 (1.5')	112	92
880-25379-3	T-1 (2')	108	105
880-25379-4	T-1 (3')	105	103
880-25379-5	T-1 (4')	90	93
880-25379-6	T-1 (5')	96	99

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-25379-1

Project/Site: West Corbin Federal SWD #16 Release

SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-25379-7	T-1 (6')	107	108
880-25379-8	H-1 (0-0.5')	103	100
880-25379-9	H-2 (0-0.5')	92	93
880-25379-10	H-3 (0-0.5')	87	89
880-25379-11	H-4 (0-0.5')	82	81
LCS 880-47692/2-A	Lab Control Sample	94	100
LCSD 880-47692/3-A	Lab Control Sample Dup	113	99
MB 880-47692/1-A	Method Blank	110	112
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47724/5-A

Matrix: Solid

Analysis Batch: 47864

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 11:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 11:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/03/23 11:55	03/06/23 11:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 11:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/03/23 11:55	03/06/23 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/03/23 11:55	03/06/23 11:21	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/03/23 11:55	03/06/23 11:21	1

Lab Sample ID: LCS 880-47724/1-A

Matrix: Solid

Analysis Batch: 47864

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1199		mg/Kg		120	70 - 130
Toluene	0.100	0.1170		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1237		mg/Kg		124	70 - 130
m-Xylene & p-Xylene	0.200	0.2670	*+	mg/Kg		133	70 - 130
o-Xylene	0.100	0.1270		mg/Kg		127	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-47724/2-A

Matrix: Solid

Analysis Batch: 47864

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47724

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1282		mg/Kg		128	70 - 130	7	35
Toluene	0.100	0.1218		mg/Kg		122	70 - 130	4	35
Ethylbenzene	0.100	0.1248		mg/Kg		125	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2642	*+	mg/Kg		132	70 - 130	1	35
o-Xylene	0.100	0.1276		mg/Kg		128	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-25400-A-1-E MS

Matrix: Solid

Analysis Batch: 47864

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.1146		mg/Kg		114	70 - 130
Toluene	<0.00201	U	0.100	0.1064		mg/Kg		105	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-25400-A-1-E MS

Matrix: Solid

Analysis Batch: 47864

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.1103		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	<0.00402	U *	0.200	0.2336		mg/Kg		117	70 - 130
o-Xylene	<0.00201	U	0.100	0.1140		mg/Kg		113	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-25400-A-1-F MSD

Matrix: Solid

Analysis Batch: 47864

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47724

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.08869		mg/Kg		89	70 - 130	25	35
Toluene	<0.00201	U	0.0996	0.09256		mg/Kg		92	70 - 130	14	35
Ethylbenzene	<0.00201	U	0.0996	0.09299		mg/Kg		93	70 - 130	17	35
m-Xylene & p-Xylene	<0.00402	U *	0.199	0.1977		mg/Kg		99	70 - 130	17	35
o-Xylene	<0.00201	U	0.0996	0.09727		mg/Kg		97	70 - 130	16	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-47743/5-A

Matrix: Solid

Analysis Batch: 47854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47743

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/03/23 12:51	03/06/23 10:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/03/23 12:51	03/06/23 10:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/03/23 12:51	03/06/23 10:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/03/23 12:51	03/06/23 10:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/03/23 12:51	03/06/23 10:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/03/23 12:51	03/06/23 10:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/03/23 12:51	03/06/23 10:46	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/03/23 12:51	03/06/23 10:46	1

Lab Sample ID: LCS 880-47743/1-A

Matrix: Solid

Analysis Batch: 47854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08174		mg/Kg		82	70 - 130
Toluene	0.100	0.08747		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08886		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1809		mg/Kg		90	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-47743/1-A

Matrix: Solid

Analysis Batch: 47854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09106		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-47743/2-A

Matrix: Solid

Analysis Batch: 47854

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47743

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09616		mg/Kg		96	70 - 130	16	35
Toluene	0.100	0.09774		mg/Kg		98	70 - 130	11	35
Ethylbenzene	0.100	0.09750		mg/Kg		97	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1991		mg/Kg		100	70 - 130	10	35
o-Xylene	0.100	0.09991		mg/Kg		100	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-25414-A-1-A MS

Matrix: Solid

Analysis Batch: 47854

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47743

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.100	0.01414	F1	mg/Kg		13	70 - 130
Toluene	<0.00201	U F1 F2	0.100	0.01149	F1	mg/Kg		11	70 - 130
Ethylbenzene	<0.00201	U F1 F2	0.100	0.01093	F1	mg/Kg		11	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.008049	F1	mg/Kg		4	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.02878	F1	mg/Kg		28	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-25414-A-1-B MSD

Matrix: Solid

Analysis Batch: 47854

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47743

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0990	0.02767	F1 F2	mg/Kg		27	70 - 130	65	35
Toluene	<0.00201	U F1 F2	0.0990	0.01731	F1 F2	mg/Kg		17	70 - 130	40	35
Ethylbenzene	<0.00201	U F1 F2	0.0990	0.01712	F1 F2	mg/Kg		17	70 - 130	44	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.198	0.01621	F1 F2	mg/Kg		8	70 - 130	67	35
o-Xylene	<0.00201	U F1	0.0990	0.02324	F1	mg/Kg		23	70 - 130	21	35

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QC Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-25414-A-1-B MSD

Matrix: Solid

Analysis Batch: 47854

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47743

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-48014/5-A

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48014

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/23 10:17	03/08/23 22:54	1	
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/23 10:17	03/08/23 22:54	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/23 10:17	03/08/23 22:54	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/23 10:17	03/08/23 22:54	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/23 10:17	03/08/23 22:54	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/23 10:17	03/08/23 22:54	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				03/07/23 10:17	03/08/23 22:54	1	
1,4-Difluorobenzene (Surr)	72		70 - 130				03/07/23 10:17	03/08/23 22:54	1	

Lab Sample ID: LCS 880-48014/1-A

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48014

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.1104		mg/Kg		110	70 - 130			
Toluene	0.100	0.1004		mg/Kg		100	70 - 130			
Ethylbenzene	0.100	0.1272		mg/Kg		127	70 - 130			
m-Xylene & p-Xylene	0.200	0.2872	*+	mg/Kg		144	70 - 130			
o-Xylene	0.100	0.1505	*+	mg/Kg		151	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130							
1,4-Difluorobenzene (Surr)	93		70 - 130							

Lab Sample ID: LCSD 880-48014/2-A

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48014

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1080		mg/Kg		108	70 - 130	2	35	
Toluene	0.100	0.09981		mg/Kg		100	70 - 130	1	35	
Ethylbenzene	0.100	0.1247		mg/Kg		125	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.2786	*+	mg/Kg		139	70 - 130	3	35	
o-Xylene	0.100	0.1426	*+	mg/Kg		143	70 - 130	5	35	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	130		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-48014/2-A

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48014

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

Lab Sample ID: 880-25537-A-41-G MS

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48014

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00202	U F2 F1	0.101	0.03255	F1	mg/Kg		32	70 - 130
Toluene	<0.00202	U F2 F1	0.101	0.05145	F1	mg/Kg		51	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.08431		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00404	U *+ F2	0.202	0.1659		mg/Kg		82	70 - 130
o-Xylene	<0.00202	U *+	0.101	0.09348		mg/Kg		93	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130

Lab Sample ID: 880-25537-A-41-H MSD

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48014

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F2 F1	0.0994	0.06294	F2 F1	mg/Kg		63	70 - 130	64	35
Toluene	<0.00202	U F2 F1	0.0994	0.07591	F2	mg/Kg		76	70 - 130	38	35
Ethylbenzene	<0.00202	U	0.0994	0.1155		mg/Kg		116	70 - 130	31	35
m-Xylene & p-Xylene	<0.00404	U *+ F2	0.199	0.2472	F2	mg/Kg		124	70 - 130	39	35
o-Xylene	<0.00202	U *+	0.0994	0.1256		mg/Kg		126	70 - 130	29	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: MB 880-48088/5-A

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48088

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:05	03/08/23 11:09	1	
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:05	03/08/23 11:09	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:05	03/08/23 11:09	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/08/23 09:05	03/08/23 11:09	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:05	03/08/23 11:09	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/08/23 09:05	03/08/23 11:09	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	101		70 - 130	03/08/23 09:05	03/08/23 11:09	1				
1,4-Difluorobenzene (Surr)	82		70 - 130	03/08/23 09:05	03/08/23 11:09	1				

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-48088/1-A

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09294		mg/Kg		93	70 - 130
Toluene	0.100	0.09646		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2195		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1058		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-48088/2-A

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1053		mg/Kg		105	70 - 130	12	35
Toluene	0.100	0.09354		mg/Kg		94	70 - 130	3	35
Ethylbenzene	0.100	0.09816		mg/Kg		98	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2025		mg/Kg		101	70 - 130	8	35
o-Xylene	0.100	0.09782		mg/Kg		98	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-25091-A-29-D MS

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.100	0.07851		mg/Kg		78	70 - 130
Toluene	<0.00198	U	0.100	0.08157		mg/Kg		81	70 - 130
Ethylbenzene	<0.00198	U	0.100	0.09199		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.201	0.1870		mg/Kg		93	70 - 130
o-Xylene	<0.00198	U	0.100	0.09017		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 880-25091-A-29-E MSD

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0990	0.08169		mg/Kg		83	70 - 130	4	35
Toluene	<0.00198	U	0.0990	0.08333		mg/Kg		84	70 - 130	2	35
Ethylbenzene	<0.00198	U	0.0990	0.09154		mg/Kg		92	70 - 130	0	35

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QC Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-25091-A-29-E MSD

Matrix: Solid

Analysis Batch: 48085

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00396	U	0.198	0.1890		mg/Kg		95	70 - 130	1	35
o-Xylene	<0.00198	U	0.0990	0.09189		mg/Kg		93	70 - 130	2	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	94		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								

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

Lab Sample ID: MB 880-47692/1-A

Matrix: Solid

Analysis Batch: 47685

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47692

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		03/03/23 08:08	03/03/23 08:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/23 08:08	03/03/23 08:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/23 08:08	03/03/23 08:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/03/23 08:08	03/03/23 08:35	1
o-Terphenyl	112		70 - 130				03/03/23 08:08	03/03/23 08:35	1

Lab Sample ID: LCS 880-47692/2-A

Matrix: Solid

Analysis Batch: 47685

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	999	946.6		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	999	1029		mg/Kg		103	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: LCSD 880-47692/3-A

Matrix: Solid

Analysis Batch: 47685

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47692

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	999	977.0		mg/Kg		98	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	999	1017		mg/Kg		102	70 - 130	1	20

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QC Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-47692/3-A

Matrix: Solid

Analysis Batch: 47685

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47692

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-25349-A-1-B MS

Matrix: Solid

Analysis Batch: 47685

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47692

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	888.3		mg/Kg		89	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	857.5		mg/Kg		84	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	93		70 - 130							
o-Terphenyl	84		70 - 130							

Lab Sample ID: 880-25349-A-1-C MSD

Matrix: Solid

Analysis Batch: 47685

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47692

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1022		mg/Kg		102	70 - 130	14	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	897.5		mg/Kg		88	70 - 130	5	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	102		70 - 130									
o-Terphenyl	88		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47765/1-A

Matrix: Solid

Analysis Batch: 47820

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			03/05/23 09:15	1	

Lab Sample ID: LCS 880-47765/2-A

Matrix: Solid

Analysis Batch: 47820

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	230.6		mg/Kg		92	90 - 110			

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QC Sample Results

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-47765/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 47820											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	231.4		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 880-25379-2 MS				Client Sample ID: T-1 (1.5')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 47820											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	55.1		251	323.6		mg/Kg		107	90 - 110		

Lab Sample ID: 880-25379-2 MSD				Client Sample ID: T-1 (1.5')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 47820											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	55.1		251	324.3		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 47724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-4	T-1 (3')	Total/NA	Solid	5035	
880-25379-5	T-1 (4')	Total/NA	Solid	5035	
880-25379-6	T-1 (5')	Total/NA	Solid	5035	
880-25379-7	T-1 (6')	Total/NA	Solid	5035	
880-25379-8	H-1 (0-0.5')	Total/NA	Solid	5035	
880-25379-9	H-2 (0-0.5')	Total/NA	Solid	5035	
880-25379-10	H-3 (0-0.5')	Total/NA	Solid	5035	
880-25379-11	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-47724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25400-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-25400-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 47743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-1	T-1 (0-1')	Total/NA	Solid	5035	
880-25379-2	T-1 (1.5')	Total/NA	Solid	5035	
880-25379-3	T-1 (2')	Total/NA	Solid	5035	
MB 880-47743/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47743/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47743/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25414-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-25414-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-1	T-1 (0-1')	Total/NA	Solid	8021B	47743
880-25379-2	T-1 (1.5')	Total/NA	Solid	8021B	47743
880-25379-3	T-1 (2')	Total/NA	Solid	8021B	47743
MB 880-47743/5-A	Method Blank	Total/NA	Solid	8021B	47743
LCS 880-47743/1-A	Lab Control Sample	Total/NA	Solid	8021B	47743
LCSD 880-47743/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47743
880-25414-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	47743
880-25414-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47743

Analysis Batch: 47864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-4	T-1 (3')	Total/NA	Solid	8021B	47724
880-25379-5	T-1 (4')	Total/NA	Solid	8021B	47724
880-25379-6	T-1 (5')	Total/NA	Solid	8021B	47724
880-25379-7	T-1 (6')	Total/NA	Solid	8021B	47724
880-25379-8	H-1 (0-0.5')	Total/NA	Solid	8021B	47724
880-25379-9	H-2 (0-0.5')	Total/NA	Solid	8021B	47724
880-25379-10	H-3 (0-0.5')	Total/NA	Solid	8021B	47724
880-25379-11	H-4 (0-0.5')	Total/NA	Solid	8021B	47724
MB 880-47724/5-A	Method Blank	Total/NA	Solid	8021B	47724
LCS 880-47724/1-A	Lab Control Sample	Total/NA	Solid	8021B	47724
LCSD 880-47724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47724
880-25400-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	47724
880-25400-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47724

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QC Association Summary

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 48014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48014/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48014/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48014/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25537-A-41-G MS	Matrix Spike	Total/NA	Solid	5035	
880-25537-A-41-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 48026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-25379-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-25379-3	T-1 (2')	Total/NA	Solid	Total BTEX	
880-25379-4	T-1 (3')	Total/NA	Solid	Total BTEX	
880-25379-5	T-1 (4')	Total/NA	Solid	Total BTEX	
880-25379-6	T-1 (5')	Total/NA	Solid	Total BTEX	
880-25379-7	T-1 (6')	Total/NA	Solid	Total BTEX	
880-25379-8	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-25379-9	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-25379-10	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-25379-11	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

Analysis Batch: 48085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-1	T-1 (0-1')	Total/NA	Solid	8021B	48088
880-25379-2	T-1 (1.5')	Total/NA	Solid	8021B	48088
MB 880-48014/5-A	Method Blank	Total/NA	Solid	8021B	48014
MB 880-48088/5-A	Method Blank	Total/NA	Solid	8021B	48088
LCS 880-48014/1-A	Lab Control Sample	Total/NA	Solid	8021B	48014
LCS 880-48088/1-A	Lab Control Sample	Total/NA	Solid	8021B	48088
LCSD 880-48014/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48014
LCSD 880-48088/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48088
880-25091-A-29-D MS	Matrix Spike	Total/NA	Solid	8021B	48088
880-25091-A-29-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48088
880-25537-A-41-G MS	Matrix Spike	Total/NA	Solid	8021B	48014
880-25537-A-41-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48014

Prep Batch: 48088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-1	T-1 (0-1')	Total/NA	Solid	5035	
880-25379-2	T-1 (1.5')	Total/NA	Solid	5035	
MB 880-48088/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48088/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48088/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25091-A-29-D MS	Matrix Spike	Total/NA	Solid	5035	
880-25091-A-29-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 47685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-1	T-1 (0-1')	Total/NA	Solid	8015B NM	47692
880-25379-2	T-1 (1.5')	Total/NA	Solid	8015B NM	47692

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QC Association Summary

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 47685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-3	T-1 (2')	Total/NA	Solid	8015B NM	47692
880-25379-4	T-1 (3')	Total/NA	Solid	8015B NM	47692
880-25379-5	T-1 (4')	Total/NA	Solid	8015B NM	47692
880-25379-6	T-1 (5')	Total/NA	Solid	8015B NM	47692
880-25379-7	T-1 (6')	Total/NA	Solid	8015B NM	47692
880-25379-8	H-1 (0-0.5')	Total/NA	Solid	8015B NM	47692
880-25379-9	H-2 (0-0.5')	Total/NA	Solid	8015B NM	47692
880-25379-10	H-3 (0-0.5')	Total/NA	Solid	8015B NM	47692
880-25379-11	H-4 (0-0.5')	Total/NA	Solid	8015B NM	47692
MB 880-47692/1-A	Method Blank	Total/NA	Solid	8015B NM	47692
LCS 880-47692/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47692
LCSD 880-47692/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47692
880-25349-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	47692
880-25349-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47692

Prep Batch: 47692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-25379-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-25379-3	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-25379-4	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-25379-5	T-1 (4')	Total/NA	Solid	8015NM Prep	
880-25379-6	T-1 (5')	Total/NA	Solid	8015NM Prep	
880-25379-7	T-1 (6')	Total/NA	Solid	8015NM Prep	
880-25379-8	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-25379-9	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-25379-10	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-25379-11	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-47692/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47692/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47692/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25349-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25349-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-25379-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-25379-3	T-1 (2')	Total/NA	Solid	8015 NM	
880-25379-4	T-1 (3')	Total/NA	Solid	8015 NM	
880-25379-5	T-1 (4')	Total/NA	Solid	8015 NM	
880-25379-6	T-1 (5')	Total/NA	Solid	8015 NM	
880-25379-7	T-1 (6')	Total/NA	Solid	8015 NM	
880-25379-8	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-25379-9	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-25379-10	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-25379-11	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

HPLC/IC

Leach Batch: 47765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-25379-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-25379-3	T-1 (2')	Soluble	Solid	DI Leach	
880-25379-4	T-1 (3')	Soluble	Solid	DI Leach	
880-25379-5	T-1 (4')	Soluble	Solid	DI Leach	
880-25379-6	T-1 (5')	Soluble	Solid	DI Leach	
880-25379-7	T-1 (6')	Soluble	Solid	DI Leach	
880-25379-8	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-25379-9	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-25379-10	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-25379-11	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-47765/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47765/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47765/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25379-2 MS	T-1 (1.5')	Soluble	Solid	DI Leach	
880-25379-2 MSD	T-1 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 47820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25379-1	T-1 (0-1')	Soluble	Solid	300.0	47765
880-25379-2	T-1 (1.5')	Soluble	Solid	300.0	47765
880-25379-3	T-1 (2')	Soluble	Solid	300.0	47765
880-25379-4	T-1 (3')	Soluble	Solid	300.0	47765
880-25379-5	T-1 (4')	Soluble	Solid	300.0	47765
880-25379-6	T-1 (5')	Soluble	Solid	300.0	47765
880-25379-7	T-1 (6')	Soluble	Solid	300.0	47765
880-25379-8	H-1 (0-0.5')	Soluble	Solid	300.0	47765
880-25379-9	H-2 (0-0.5')	Soluble	Solid	300.0	47765
880-25379-10	H-3 (0-0.5')	Soluble	Solid	300.0	47765
880-25379-11	H-4 (0-0.5')	Soluble	Solid	300.0	47765
MB 880-47765/1-A	Method Blank	Soluble	Solid	300.0	47765
LCS 880-47765/2-A	Lab Control Sample	Soluble	Solid	300.0	47765
LCSD 880-47765/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47765
880-25379-2 MS	T-1 (1.5')	Soluble	Solid	300.0	47765
880-25379-2 MSD	T-1 (1.5')	Soluble	Solid	300.0	47765

Lab Chronicle

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-25379-1

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47743	03/03/23 12:51	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	47854	03/06/23 13:34	AJ	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	48088	03/08/23 09:05	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	48085	03/08/23 14:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	47685	03/03/23 17:37	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 10:53	CH	EET MID

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-25379-2

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47743	03/03/23 12:51	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	47854	03/06/23 13:54	AJ	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	48088	03/08/23 09:05	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	48085	03/08/23 14:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	47685	03/03/23 16:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 10:59	CH	EET MID

Client Sample ID: T-1 (2')

Lab Sample ID: 880-25379-3

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47743	03/03/23 12:51	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	47854	03/06/23 14:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47685	03/03/23 16:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 11:18	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (3')

Lab Sample ID: 880-25379-4

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47724	03/03/23 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47864	03/06/23 12:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47685	03/03/23 16:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 11:24	CH	EET MID

Client Sample ID: T-1 (4')

Lab Sample ID: 880-25379-5

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47724	03/03/23 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47864	03/06/23 12:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47685	03/03/23 17:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 11:43	CH	EET MID

Client Sample ID: T-1 (5')

Lab Sample ID: 880-25379-6

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47724	03/03/23 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47864	03/06/23 13:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47685	03/03/23 19:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 11:49	CH	EET MID

Client Sample ID: T-1 (6')

Lab Sample ID: 880-25379-7

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47724	03/03/23 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47864	03/06/23 13:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:15	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Client Sample ID: T-1 (6')

Lab Sample ID: 880-25379-7

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47685	03/03/23 18:21	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 11:55	CH	EET MID

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

Lab Sample ID: 880-25379-8

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47724	03/03/23 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47864	03/06/23 13:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47685	03/03/23 17:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 12:01	CH	EET MID

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

Lab Sample ID: 880-25379-9

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47724	03/03/23 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47864	03/06/23 17:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47685	03/03/23 19:04	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 12:07	CH	EET MID

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

Lab Sample ID: 880-25379-10

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47724	03/03/23 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47864	03/06/23 18:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47685	03/03/23 15:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-25379-10

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 12:13	CH	EET MID

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

Lab Sample ID: 880-25379-11

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 14:30

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	47724	03/03/23 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47864	03/06/23 18:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48026	03/07/23 13:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47927	03/06/23 12:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47692	03/03/23 09:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47685	03/03/23 18:42	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47765	03/03/23 15:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47820	03/05/23 12:19	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	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: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: West Corbin Federal SWD #16 Release

Job ID: 880-25379-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25379-1	T-1 (0-1')	Solid	03/01/23 00:00	03/02/23 14:30
880-25379-2	T-1 (1.5')	Solid	03/01/23 00:00	03/02/23 14:30
880-25379-3	T-1 (2')	Solid	03/01/23 00:00	03/02/23 14:30
880-25379-4	T-1 (3')	Solid	03/01/23 00:00	03/02/23 14:30
880-25379-5	T-1 (4')	Solid	03/01/23 00:00	03/02/23 14:30
880-25379-6	T-1 (5')	Solid	03/01/23 00:00	03/02/23 14:30
880-25379-7	T-1 (6')	Solid	03/01/23 00:00	03/02/23 14:30
880-25379-8	H-1 (0-0.5')	Solid	03/01/23 00:00	03/02/23 14:30
880-25379-9	H-2 (0-0.5')	Solid	03/01/23 00:00	03/02/23 14:30
880-25379-10	H-3 (0-0.5')	Solid	03/01/23 00:00	03/02/23 14:30
880-25379-11	H-4 (0-0.5')	Solid	03/01/23 00:00	03/02/23 14:30

Chain of Custody

Work Order No: 25379

Page 1 of 2

Project Manager:	Conner Moehring	Bill to (if different):	Todd Wells
Company Name:	Carmona Resources	Company Name:	EOG Resources
Address:	310 W Wall St Ste 500	Address:	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79706
Phone:	432-813-6823	Email:	Todd Wells@eogresources.com

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

Project Name	West Corbin Federal SWD #16 Release	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes		
Project Number	1225	Due Date	72 Hours													None NO	DI Water H ₂ O
Project Location	Lea County, New Mexico															Cool Cool	MeOH Me
Sampler's Name:	GPJ															HCL, HC	HNO ₃ HN
PO #:																H ₂ SO ₄ , H ₂	NaOH Na
SAMPLE RECEIPT																H ₃ PO ₄ HP	
Received Intact:	Temp Blank.	Yes No	Yes No	Wet Ice	Yes No											NaHSO ₄ NABIS	
Cooler Custody Seals	Yes No	N/A	Thermometer ID	Correction Factor												Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes No	N/A	Temperature Reading													Zn Acetate+NaOH Zn	
Total Containers:	Yes No	N/A	Corrected Temperature													NaOH+Ascorbic Acid SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments
T-1 (0-1')	3/1/2023		X		Grab/	1	X	X	X								402
T-1 (1-5)	3/1/2023		X		Grab/	1	X	X	X								
T-1 (2)	3/1/2023		X		Grab/	1	X	X	X								
T-1 (3)	3/1/2023		X		Grab/	1	X	X	X								
T-1 (4)	3/1/2023		X		Grab/	1	X	X	X								
T-1 (5)	3/1/2023		X		Grab/	1	X	X	X								
T-1 (6)	3/1/2023		X		Grab/	1	X	X	X								
H-1 (0-0.5')	3/1/2023		X		Grab/	1	X	X	X								
H-2 (0-0.5')	3/1/2023		X		Grab/	1	X	X	X								
H-3 (0-0.5')	3/1/2023		X		Grab/	1	X	X	X								

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



880-25379 Chain of Custody

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>[Signature]</i>	3-2-2023 1430	<i>[Signature]</i>	

Work Order No: 25679


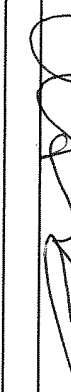
Page 2 of 2

Project Manager	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 500	Address	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79706
Phone	432-813-6823	Email	Todd Wells@eogresources.com

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

[illegible]

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	3-7-2023 1430		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-25379-1
SDG Number: Lea County, New Mexico

Login Number: 25379

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.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

March 30, 2023

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: WEST CORBIN FEDERAL SWD #16 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/29/23 11:17.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	WEST CORBIN FEDERAL SWD #16 RELE	Sampling Condition:	Cool & Intact
Project Number:	1225	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA COUNTY, NEW MEXICO		

Sample ID: CS - 1 (5') (H231424-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.03	101	2.00	1.41	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.659	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.574	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.66	111	6.00	0.609	
Total BTX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/30/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	6.07	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	236	118	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	WEST CORBIN FEDERAL SWD #16 RELE	Sampling Condition:	Cool & Intact
Project Number:	1225	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA COUNTY, NEW MEXICO		

Sample ID: CS - 2 (5') (H231424-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.03	101	2.00	1.41	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.659	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.574	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.66	111	6.00	0.609	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/30/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	6.07	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	236	118	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	WEST CORBIN FEDERAL SWD #16 RELE	Sampling Condition:	Cool & Intact
Project Number:	1225	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA COUNTY, NEW MEXICO		

Sample ID: SW - 1 (5') (H231424-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	2.03	101	2.00	1.41		
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.659		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.574		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.66	111	6.00	0.609		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/30/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	6.07	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	236	118	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	WEST CORBIN FEDERAL SWD #16 RELE	Sampling Condition:	Cool & Intact
Project Number:	1225	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA COUNTY, NEW MEXICO		

Sample ID: SW - 2 (5') (H231424-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	2.03	101	2.00	1.41		
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.659		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.574		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.66	111	6.00	0.609		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/30/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	6.07	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	236	118	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	WEST CORBIN FEDERAL SWD #16 RELE	Sampling Condition:	Cool & Intact
Project Number:	1225	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA COUNTY, NEW MEXICO		

Sample ID: SW - 3 (5') (H231424-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	2.03	101	2.00	1.41		
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.659		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.574		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.66	111	6.00	0.609		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/30/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	6.07	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	236	118	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	WEST CORBIN FEDERAL SWD #16 RELE	Sampling Condition:	Cool & Intact
Project Number:	1225	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA COUNTY, NEW MEXICO		

Sample ID: SW - 4 (5') (H231424-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	2.03	101	2.00	1.41		
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.659		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.574		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.66	111	6.00	0.609		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/30/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	6.07	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	236	118	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

Work Order Comments	
Program: UST/PT <input type="checkbox"/> PRR <input type="checkbox"/> Rowfields <input type="checkbox"/> IRC <input type="checkbox"/> perfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

[illegible]

Date/Time

Re *[Signature]*

3-29-23 1117

Received by: (Signature)

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 208976

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 208976
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/12/2023