CARMONA RESOURCES

SITE INFORMATION

Closure Report
Mercury State Com CTB (12.25.2023)
Eddy County, New Mexico
Incident ID: nAPP2336062739
Unit N Sec 18 T26S R28E
32.0368°, -104.1281°

Condensate Release & Fire
Point of Release: Fluids hitting the combustor and igniting.
Release Date: 12.25.2023
Volume Released: 0.1 Barrels of Condensate
Volume Recovered: 0 Barrels of Condensate

CARMONA RESOURCES

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

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

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

CARMONA RESOURCES

TABLE OF CONTENTS

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

CARMONA RESOURCES

March 25, 2024

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

Re: Closure Report
Mercury State Com CTB (12.25.2023)
Concho Operating, LLC
Incident ID: nAPP2336062739
Site Location: Unit N, S18, T26S, R28E
(Lat 32.0368°, Long -104.1281°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Mercury State Com CTB (12.25.2023). The site is located at 32.0368°, -104.1281° within Unit N, S18, T26S, and R28E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on December 25, 2023, due to a fluid hitting the combustor and creating a fire. This released zero point one (0.1) barrels of condensate and zero (0) barrels of condensate were recovered. Refer to Figure 3. The release and fire were contained to the well pad. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The nearest water well is located approximately 1.62 miles Northeast of the site in S18, T26S, R28E and was drilled in 1998. The well was drilled to a depth of 16.35’ below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

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CARMONA RESOURCES

4.0 Site Assessment Activities

Initial Assessment Activities

On March 5, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of one (1) vertical sample point (S-1) and three (3) horizontal sample points (H-1 through H-3) were advanced to depths ranging from the surface to 2.0' bgs inside the release area to assess the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratory in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

Vertical Delineation

The area of S-1 was below regulatory limits for TPH, Benzene, total BTEX, and Chloride concentrations. Refer to Table 1.

Horizontal Delineation

All horizontal sample points were horizontally delineated and below regulatory limits for TPH, Benzene, total BTEX, and Chloride concentrations. Refer to Table 1.

5.0 Conclusions

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

Ashton Thielke
Sr. Project Manager

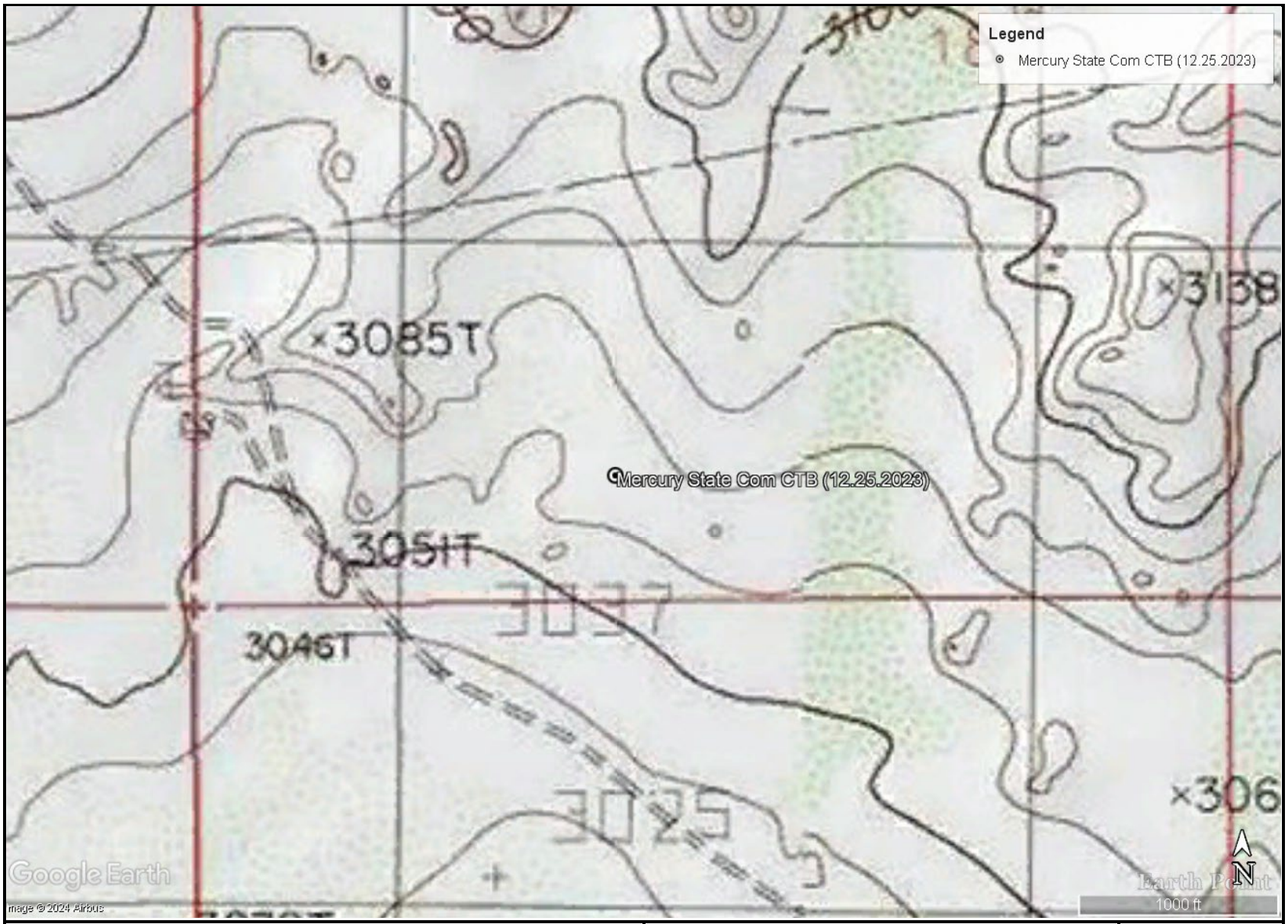
Conner Moehring
Sr. Project Manager

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

FIGURES

CARMONA RESOURCES

OVERVIEW MAP COG OPERATING, LLC MERCURY STATE COM CTB (12.25.2023) EDDY COUNTY, NEW MEXICO 32.0368°, -104.1281°	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP COG OPERATING, LLC MERCURY STATE COM CTB (12.25.2023) EDDY COUNTY, NEW MEXICO 32.0368°, -104.1281°	CARMONA RESOURCES	FIGURE 2

SAMPLE LOCATION MAP COG OPERATING, LLC MERCURY STATE COM CTB (12.25.2023) EDDY COUNTY, NEW MEXICO 32.0368°, -104.1281°	CARMONA RESOURCES	FIGURE 3

APPENDIX A

CARMONA RESOURCES

Table 1
COG Operating, LLC
Mercury State Com (12.25.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	3/5/2024	0.5	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	51.6
	"	1.0	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	76.9
	"	1.5	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	86.7
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	99.8
H-1	3/5/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	156
H-2	3/5/2024	0-0.5	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	536
H-3	3/5/2024	0-0.5	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	36.4
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

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

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

COG Operating

Photograph No. 1

Facility: Mercury State Com CTB (12.25.2023)

County: Eddy County, New Mexico

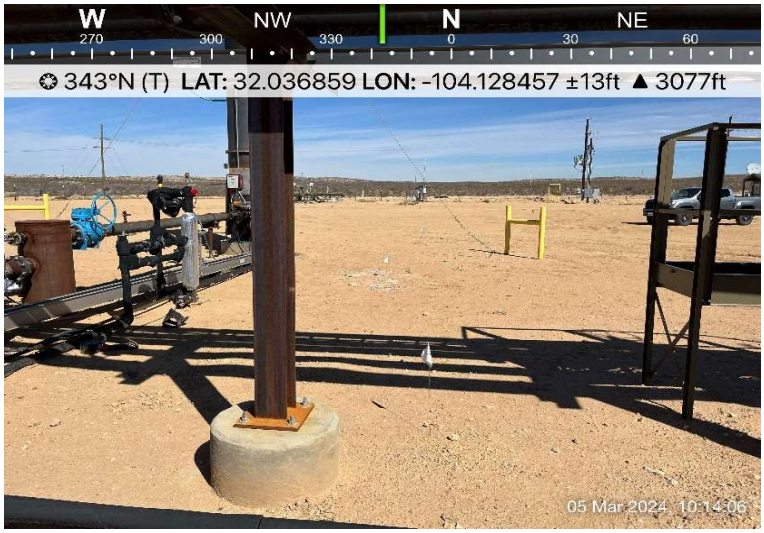
Description:
View West, area of S-1.

Photograph No. 2

Facility: Mercury State Com CTB (12.25.2023)

County: Eddy County, New Mexico

Description:
View North, area of S-1.

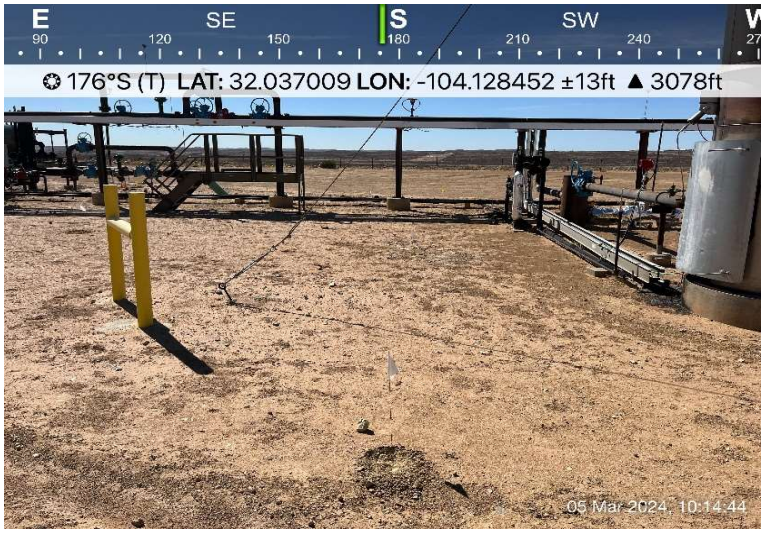


Photograph No. 3

Facility: Mercury State Com CTB (12.25.2023)

County: Eddy County, New Mexico

Description:
View South, area of S-1.



CARMONA RESOURCES

APPENDIX C

CARMONA RESOURCES

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

QUESTIONS

Action 297616

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 297616
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all the questions in this group.*	
Site Name	Mercury State Com CTB
Date Release Discovered	12/25/2023
Surface Owner	State

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

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

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 297616
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more;** **(2) an unauthorized release of a volume that:** **(a) results in a fire or is the result of a fire.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 297616
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	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.
☑	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
☑	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	229137
	Action Number: 297616
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jacquih	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	12/26/2023

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

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

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

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

Printed Name _____ Title: _____

Signature: __ _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

COG Operating

Legend

- 0.50 Mile Radius
- 1.62 Miles
- 2.00 Miles
- 2.17 Miles
- 2.75 Miles
- Groundwater Determination Bore
- Mercury State Com CTB (12.25.2023)
- NMSEO Water Well
- USGS Water Well

16.35' - Drilled 1998

Mercury State Com CTB (12.25.2023)

59' - Drilled 2021 - Dry

27.55' - Drilled 2003

33' - Drilled 2020

Google Earth

Image © 2024 Airbus

N

1 mi

High Karst
COG Operating

Legend
High
Medium
Mercury State Com CTB (12.25.2023)

Mercury State Com CTB (12.25.2023)

Google Earth

Image © 2024 Airbus

N

1 mi

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02475	CUB	ED		2	4	13	26S	27E	581450	3545252*	1475	100		
C 02476	CUB	ED		4	1	24	26S	27E	580653	3544032*	2293	150		
C 04466 POD1	CUB	ED	3	3	2	29	26S	28E	584327	3542357	2811	96	33	63
C 02160 S7	CUB	ED	3	3	1	22	26S	28E	586638	3543998*	3875	300	120	180

Average Depth to Water: **76 feet**

Minimum Depth: **33 feet**

Maximum Depth: **120 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 582834 **Northing (Y):** 3544740 **Radius:** 4000

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

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	? S

Groundwater | New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320230104060601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320230104060601 26S.28E.18.33111

Eddy County, New Mexico
Latitude 32°02'30", Longitude 104°06'06" NAD27
Land-surface elevation 3,070 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) 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
1981-05-01		D	62610		3050.88	NGVD29	1	Z		
1981-05-01		D	62611		3052.48	NAVD88	1	Z		
1981-05-01		D	72019	17.52			1	Z		
1983-01-25		D	62610		3052.15	NGVD29	1	Z		
1983-01-25		D	62611		3053.75	NAVD88	1	Z		
1983-01-25		D	72019	16.25			1	Z		
1987-10-13		D	62610		3053.27	NGVD29	1	Z		
1987-10-13		D	62611		3054.87	NAVD88	1	Z		
1987-10-13		D	72019	15.13			1	Z		
1992-11-03		D	62610		3050.77	NGVD29	1	S		
1992-11-03		D	62611		3052.37	NAVD88	1	S		
1992-11-03		D	72019	17.63			1	S		
1998-01-22		D	62610		3052.05	NGVD29	1	S		
1998-01-22		D	62611		3053.65	NAVD88	1	S		
1998-01-22		D	72019	16.35			1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S

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

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
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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: 2023-08-16 11:55:41 EDT
1.36 0.48 nadww02

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04466 POD1	3	3	2	29	26S	28E	584327	3542357

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	JOHN W WHITE				
Drill Start Date:	09/01/2020	**Drill Finish Date:**	09/02/2020	**Plug Date:**	10/16/2020
Log File Date:	11/12/2020	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	0 GPM
Casing Size:		**Depth Well:**	96 feet	**Depth Water:**	33 feet

Water Bearing Stratifications:	Top	Bottom	Description
	33	35	Sandstone/Gravel/Conglomerate
	35	37	Other/Unknown
	37	42	Other/Unknown
	42	54	Sandstone/Gravel/Conglomerate
	54	65	Other/Unknown
	65	67	Sandstone/Gravel/Conglomerate
	67	74	Sandstone/Gravel/Conglomerate

Project Name :	**Diamondback 22 State 2H(08.30.2021)**	**Date :**	**November 16, 2021**
Project No. :	**214634**	**Sampler :**	**Clint Merritt**
Location :	**Eddy Co, New Mexico**		
Coordinates :	**32.03314°, -104.08201°**	**Driller :**	**Scarborough Drilling**
Elevation :	**2,991'**	**Method :**	**Air Rotary**

Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Yellowish Orange/White well graded gravel with <50% coarse sand and caliche (GW). Dry	
5		(5') - Light reddish brown loose, medium sand with <50% fine well cemented gravel (SW). Dry	
10		(10') - Light reddish brown/ white loose fine sand with <25% fine well cemented gravel (SW). Dry	
15			
20		(20') - Light brown loose fine sand with <25% fine poorly cemented gravel and trace gypsum (SM). Dry	
25		(25') - White fine very loose sand with 100% gypsum (ML). Dry	
30			
35			
40			
45			
50			

Depth (ft.)	WL	Soil Description	Lithology
50		(50') - Light brown soft clay with <50% fine loose sand (CL). Dry	
55			
60		(59') - Light brown soft clay with 50% fine loose sand (CL). Moist	
65			
70			
75			
80			
85			
90			
95			
100			

Comments : *Total Depth 59' bgs*
Drilling Terminated @ 14:00 CT No groundwater present

On 11/19/2021 No groundwater present

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320134104094801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320134104094801 26S.27E.23.321431

Eddy County, New Mexico
Latitude 32°01'34", Longitude 104°09'48" NAD27
Land-surface elevation 3,065 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Bell Canyon Formation (313BLCN) 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
1992-11-04		D	62610		3045.35	NGVD29	1	S		
1992-11-04		D	62611		3046.97	NAVD88	1	S		
1992-11-04		D	72019	19.65			1	S		
1998-01-13		D	62610		3039.38	NGVD29	1	S		
1998-01-13		D	62611		3041.00	NAVD88	1	S		
1998-01-13		D	72019	25.62			1	S		
2003-01-29		D	62610		3037.45	NGVD29	1	S	USGS	
2003-01-29		D	62611		3039.07	NAVD88	1	S	USGS	
2003-01-29		D	72019	27.55			1	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

Section	Code	Description
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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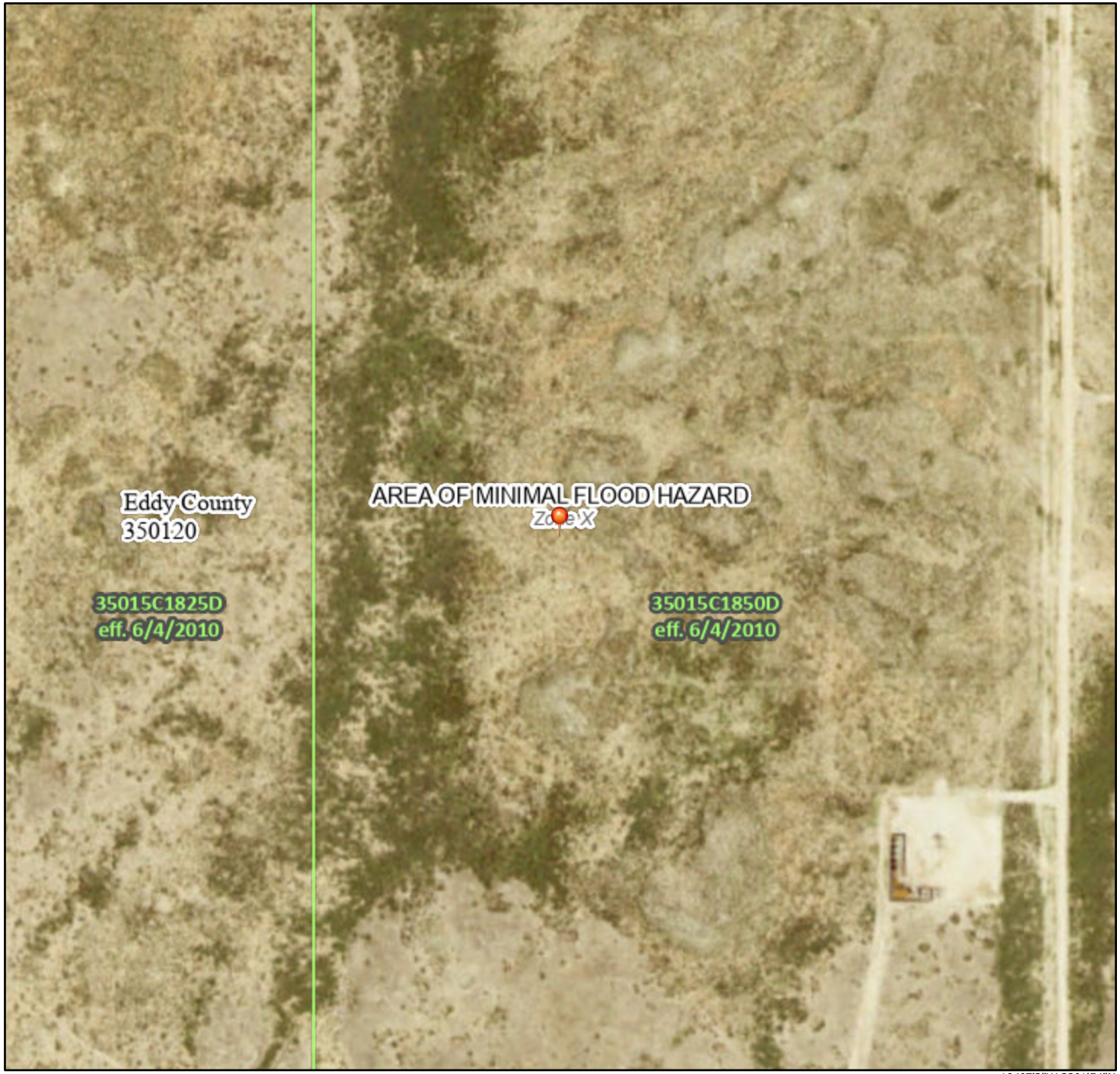
Accessibility FOIA Privacy Policies and Notices
U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2023-08-16 11:56:51 EDT
0.48 0.31 nadww01

National Flood Hazard Layer FIRMette

FEMA

104°7'40"W 32°2'24"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°7'3"W 32°1'54"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

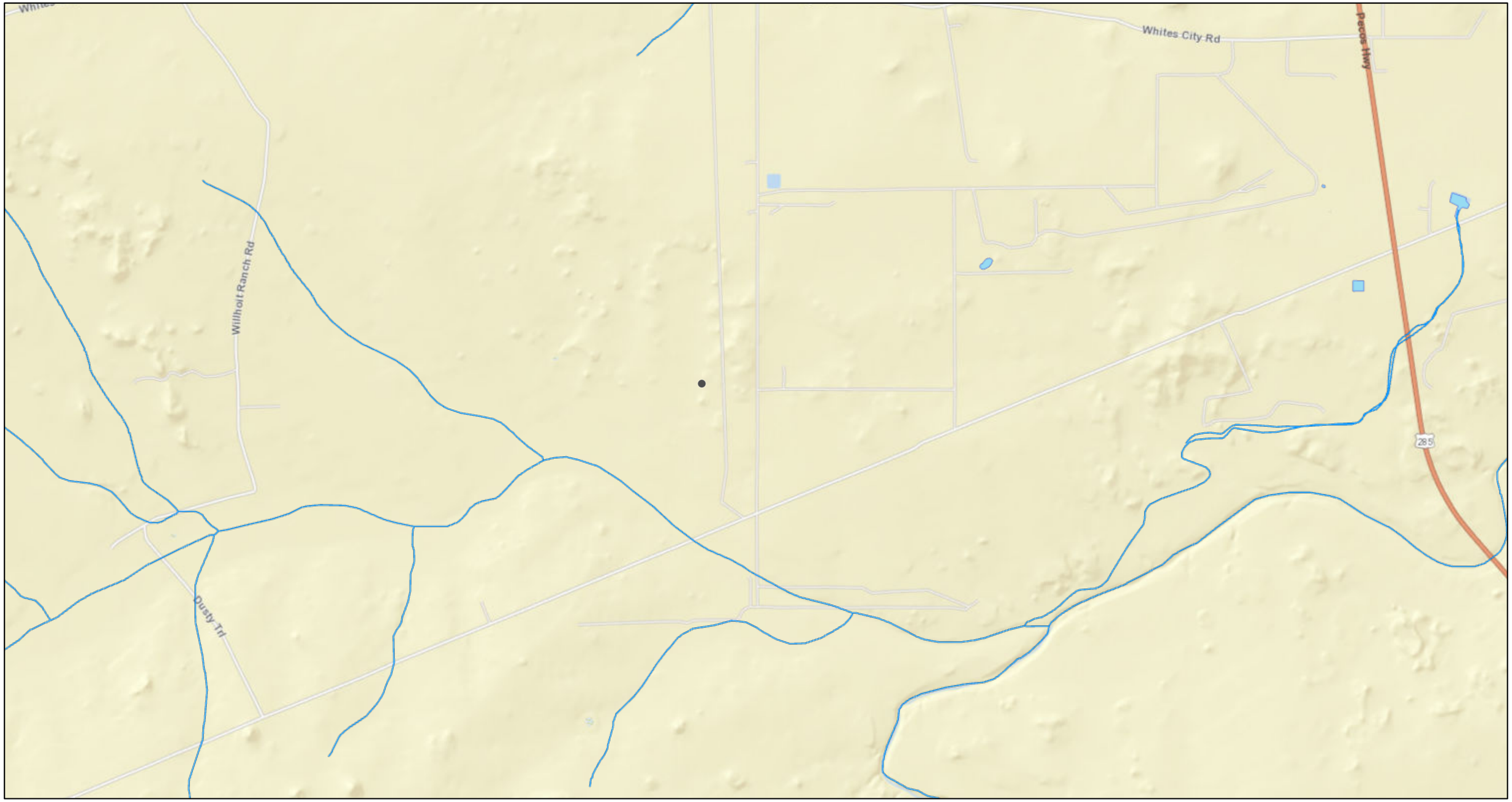
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/30/2024 at 12:48 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Mercury State Com CTB (12.25.2023)



1/30/2024, 11:48:54 AM

OSE Streams

OSW Water Bodys

1:36,112

0 0.38 0.75 1.5 mi

0 0.5 1 2 km

Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, NGA, USGS, NM OSE

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/8/2024 11:23:36 AM

JOB DESCRIPTION

Mercury State Com (12.25.23)
2258

JOB NUMBER

890-6318-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

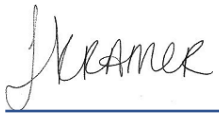
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
3/8/2024 11:23:36 AM

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

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Laboratory Job ID: 890-6318-1
SDG: 2258

Table of Contents

Definitions/Glossary

Client: Carmona Resources Job ID: 890-6318-1
Project/Site: Mercury State Com (12.25.23) SDG: 2258

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Mercury State Com (12.25.23)

Job ID: 890-6318-1

Job ID: 890-6318-1 Eurofins Carlsbad

Job Narrative
890-6318-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt
The samples were received on 3/5/2024 3:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0.5) (890-6318-1), S-1 (1.0) (890-6318-2), S-1 (1.5) (890-6318-3) and S-1 (2.0) (890-6318-4).

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-74999 and analytical batch 880-75000 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-74935/2-A) and (LCSD 880-74935/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-1 (2.0) (890-6318-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-74935 and analytical batch 880-74954 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74948 and analytical batch 880-75020 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

Client Sample ID: S-1 (0.5)

Lab Sample ID: 890-6318-1
Matrix: Solid
Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 19:48	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 19:48	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 19:48	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/07/24 12:23	03/07/24 19:48	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 19:48	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/07/24 12:23	03/07/24 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/07/24 12:23*	*03/07/24 19:48*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*03/07/24 12:23*	*03/07/24 19:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/07/24 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/07/24 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		03/06/24 16:51	03/07/24 12:59	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/06/24 16:51	03/07/24 12:59	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/06/24 16:51	03/07/24 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*03/06/24 16:51*	*03/07/24 12:59*	*1*
o-Terphenyl	*96*		*70 - 130*	*03/06/24 16:51*	*03/07/24 12:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.6**		4.99		mg/Kg			03/07/24 16:07	1

Client Sample ID: S-1 (1.0)

Lab Sample ID: 890-6318-2
Matrix: Solid
Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

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		03/07/24 12:23	03/07/24 20:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 20:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 20:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 20:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 20:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/07/24 12:23*	*03/07/24 20:14*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/07/24 12:23*	*03/07/24 20:14*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

Client Sample ID: S-1 (1.0)

Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Lab Sample ID: 890-6318-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/07/24 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/07/24 13:21	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	<50.4	U	50.4		mg/Kg		03/06/24 16:51	03/07/24 13:21	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/06/24 16:51	03/07/24 13:21	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/06/24 16:51	03/07/24 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*03/06/24 16:51*	*03/07/24 13:21*	*1*
o-Terphenyl	*87*		*70 - 130*	*03/06/24 16:51*	*03/07/24 13:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.9**		4.98		mg/Kg			03/07/24 16:25	1

Client Sample ID: S-1 (1.5)

Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Lab Sample ID: 890-6318-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 20:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 20:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 20:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/07/24 12:23	03/07/24 20:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 20:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/24 12:23	03/07/24 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*03/07/24 12:23*	*03/07/24 20:41*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/07/24 12:23*	*03/07/24 20:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/07/24 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/07/24 13:42	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	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 13:42	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 13:42	1

Client Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

Client Sample ID: S-1 (1.5)

Lab Sample ID: 890-6318-3
Matrix: Solid
Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*03/06/24 16:51*	*03/07/24 13:42*	*1*
o-Terphenyl	*90*		*70 - 130*	*03/06/24 16:51*	*03/07/24 13:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.7**		5.00		mg/Kg			03/07/24 16:32	1

Client Sample ID: S-1 (2.0)

Lab Sample ID: 890-6318-4
Matrix: Solid
Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/07/24 21:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/07/24 21:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/07/24 21:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/24 12:23	03/07/24 21:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/07/24 21:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/24 12:23	03/07/24 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*03/07/24 12:23*	*03/07/24 21:07*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/07/24 12:23*	*03/07/24 21:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 21:07	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			03/07/24 14:04	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		03/06/24 16:51	03/07/24 14:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/24 16:51	03/07/24 14:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/24 16:51	03/07/24 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*03/06/24 16:51*	*03/07/24 14:04*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*03/06/24 16:51*	*03/07/24 14:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.8**		5.02		mg/Kg			03/07/24 16:38	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-6318-1	S-1 (0.5)	118	82
890-6318-2	S-1 (1.0)	115	89
890-6318-3	S-1 (1.5)	128	94
890-6318-4	S-1 (2.0)	124	86
890-6320-A-21-D MS	Matrix Spike	113	92
890-6320-A-21-E MSD	Matrix Spike Duplicate	125	84
LCS 880-74999/1-A	Lab Control Sample	111	96
LCSD 880-74999/2-A	Lab Control Sample Dup	117	97
MB 880-74999/5-A	Method Blank	70	88

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-40252-A-1-H MS	Matrix Spike	105	85
880-40252-A-1-I MSD	Matrix Spike Duplicate	125	100
890-6318-1	S-1 (0.5)	105	96
890-6318-2	S-1 (1.0)	97	87
890-6318-3	S-1 (1.5)	102	90
890-6318-4	S-1 (2.0)	78	69 S1-
LCS 880-74935/2-A	Lab Control Sample	27 S1-	112
LCSD 880-74935/3-A	Lab Control Sample Dup	23 S1-	104
MB 880-74935/1-A	Method Blank	112	111

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74999/5-A
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 17:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*03/07/24 12:23*	*03/07/24 17:35*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/07/24 12:23*	*03/07/24 17:35*	*1*

Lab Sample ID: LCS 880-74999/1-A
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74999

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1195		mg/Kg		120	70 - 130		
Toluene			0.100	0.1154		mg/Kg		115	70 - 130		
Ethylbenzene			0.100	0.1241		mg/Kg		124	70 - 130		
m-Xylene & p-Xylene			0.200	0.2496		mg/Kg		125	70 - 130		
o-Xylene			0.100	0.1221		mg/Kg		122	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-74999/2-A
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74999

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1178		mg/Kg		118	70 - 130	1	35
Toluene			0.100	0.1185		mg/Kg		119	70 - 130	3	35
Ethylbenzene			0.100	0.1248		mg/Kg		125	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2500		mg/Kg		125	70 - 130	0	35
o-Xylene			0.100	0.1231		mg/Kg		123	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-6320-A-21-D MS
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.101	0.1097		mg/Kg		109	70 - 130		
Toluene	<0.00198	U	0.101	0.1128		mg/Kg		112	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

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

Lab Sample ID: 890-6320-A-21-D MS
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.101	0.1208		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.2435		mg/Kg		121	70 - 130
o-Xylene	<0.00198	U F1	0.101	0.1212		mg/Kg		120	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-6320-A-21-E MSD
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1252		mg/Kg		125	70 - 130	13	35
Toluene	<0.00198	U	0.0998	0.1197		mg/Kg		120	70 - 130	6	35
Ethylbenzene	<0.00198	U	0.0998	0.1290		mg/Kg		129	70 - 130	7	35
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.2605	F1	mg/Kg		131	70 - 130	7	35
o-Xylene	<0.00198	U F1	0.0998	0.1316	F1	mg/Kg		132	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

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

Lab Sample ID: MB 880-74935/1-A
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74935

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		03/06/24 16:51	03/07/24 08:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 08:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 08:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*03/06/24 16:51*	*03/07/24 08:02*	*1*
o-Terphenyl	*111*		*70 - 130*	*03/06/24 16:51*	*03/07/24 08:02*	*1*

Lab Sample ID: LCS 880-74935/2-A
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

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

Lab Sample ID: LCS 880-74935/2-A
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74935

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	27	S1-	70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-74935/3-A
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74935

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1088		mg/Kg		109	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	955.9		mg/Kg		96	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	23	S1-	70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-40252-A-1-H MS
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F2	1010	910.1		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	54.6		1010	1039		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-40252-A-1-I MSD
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F2	1010	1131	F2	mg/Kg		108	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	54.6		1010	1244		mg/Kg		118	70 - 130	18	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	100		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74948/1-A
Matrix: Solid
Analysis Batch: 75020

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/07/24 15:07	1

Lab Sample ID: LCS 880-74948/2-A
Matrix: Solid
Analysis Batch: 75020

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	229.4		mg/Kg		92	90 - 110		

Lab Sample ID: LCSD 880-74948/3-A
Matrix: Solid
Analysis Batch: 75020

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.6		mg/Kg		95	90 - 110	3	20

Lab Sample ID: 890-6319-A-3-B MS
Matrix: Solid
Analysis Batch: 75020

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	36.4	F1	252	271.7		mg/Kg		94	90 - 110		

Lab Sample ID: 890-6319-A-3-C MSD
Matrix: Solid
Analysis Batch: 75020

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	36.4	F1	252	254.1	F1	mg/Kg		87	90 - 110	7	20

QC Association Summary

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

GC VOA

Prep Batch: 74999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6318-1	S-1 (0.5)	Total/NA	Solid	5035	
890-6318-2	S-1 (1.0)	Total/NA	Solid	5035	
890-6318-3	S-1 (1.5)	Total/NA	Solid	5035	
890-6318-4	S-1 (2.0)	Total/NA	Solid	5035	
MB 880-74999/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74999/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74999/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6320-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
890-6320-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 75000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6318-1	S-1 (0.5)	Total/NA	Solid	8021B	74999
890-6318-2	S-1 (1.0)	Total/NA	Solid	8021B	74999
890-6318-3	S-1 (1.5)	Total/NA	Solid	8021B	74999
890-6318-4	S-1 (2.0)	Total/NA	Solid	8021B	74999
MB 880-74999/5-A	Method Blank	Total/NA	Solid	8021B	74999
LCS 880-74999/1-A	Lab Control Sample	Total/NA	Solid	8021B	74999
LCSD 880-74999/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74999
890-6320-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	74999
890-6320-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	74999

Analysis Batch: 75075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6318-1	S-1 (0.5)	Total/NA	Solid	Total BTEX	
890-6318-2	S-1 (1.0)	Total/NA	Solid	Total BTEX	
890-6318-3	S-1 (1.5)	Total/NA	Solid	Total BTEX	
890-6318-4	S-1 (2.0)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 74935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6318-1	S-1 (0.5)	Total/NA	Solid	8015NM Prep	
890-6318-2	S-1 (1.0)	Total/NA	Solid	8015NM Prep	
890-6318-3	S-1 (1.5)	Total/NA	Solid	8015NM Prep	
890-6318-4	S-1 (2.0)	Total/NA	Solid	8015NM Prep	
MB 880-74935/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74935/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40252-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-40252-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6318-1	S-1 (0.5)	Total/NA	Solid	8015B NM	74935
890-6318-2	S-1 (1.0)	Total/NA	Solid	8015B NM	74935
890-6318-3	S-1 (1.5)	Total/NA	Solid	8015B NM	74935
890-6318-4	S-1 (2.0)	Total/NA	Solid	8015B NM	74935
MB 880-74935/1-A	Method Blank	Total/NA	Solid	8015B NM	74935
LCS 880-74935/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74935

QC Association Summary

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

GC Semi VOA (Continued)

Analysis Batch: 74954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-74935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74935
880-40252-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	74935
880-40252-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	74935

Analysis Batch: 75025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6318-1	S-1 (0.5)	Total/NA	Solid	8015 NM	
890-6318-2	S-1 (1.0)	Total/NA	Solid	8015 NM	
890-6318-3	S-1 (1.5)	Total/NA	Solid	8015 NM	
890-6318-4	S-1 (2.0)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 74948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6318-1	S-1 (0.5)	Soluble	Solid	DI Leach	
890-6318-2	S-1 (1.0)	Soluble	Solid	DI Leach	
890-6318-3	S-1 (1.5)	Soluble	Solid	DI Leach	
890-6318-4	S-1 (2.0)	Soluble	Solid	DI Leach	
MB 880-74948/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74948/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74948/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6319-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6319-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 75020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6318-1	S-1 (0.5)	Soluble	Solid	300.0	74948
890-6318-2	S-1 (1.0)	Soluble	Solid	300.0	74948
890-6318-3	S-1 (1.5)	Soluble	Solid	300.0	74948
890-6318-4	S-1 (2.0)	Soluble	Solid	300.0	74948
MB 880-74948/1-A	Method Blank	Soluble	Solid	300.0	74948
LCS 880-74948/2-A	Lab Control Sample	Soluble	Solid	300.0	74948
LCSD 880-74948/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74948
890-6319-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	74948
890-6319-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	74948

Lab Chronicle

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

Client Sample ID: S-1 (0.5)

Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Lab Sample ID: 890-6318-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 19:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75075	03/07/24 19:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			75025	03/07/24 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 12:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1			75020	03/07/24 16:07	CH	EET MID

Client Sample ID: S-1 (1.0)

Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Lab Sample ID: 890-6318-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 20:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75075	03/07/24 20:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			75025	03/07/24 13:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 13:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1			75020	03/07/24 16:25	CH	EET MID

Client Sample ID: S-1 (1.5)

Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Lab Sample ID: 890-6318-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 20:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75075	03/07/24 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			75025	03/07/24 13:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 13:42	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1			75020	03/07/24 16:32	CH	EET MID

Client Sample ID: S-1 (2.0)

Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Lab Sample ID: 890-6318-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 21:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75075	03/07/24 21:07	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

Client Sample ID: S-1 (2.0)

Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Lab Sample ID: 890-6318-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			75025	03/07/24 14:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 14:04	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1			75020	03/07/24 16:38	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 890-6318-1
Project/Site: Mercury State Com (12.25.23)
SDG: 2258

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	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

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: Mercury State Com (12.25.23)

Job ID: 890-6318-1
SDG: 2258

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6318-1	S-1 (0.5)	Solid	03/05/24 00:00	03/05/24 15:47
890-6318-2	S-1 (1.0)	Solid	03/05/24 00:00	03/05/24 15:47
890-6318-3	S-1 (1.5)	Solid	03/05/24 00:00	03/05/24 15:47
890-6318-4	S-1 (2.0)	Solid	03/05/24 00:00	03/05/24 15:47

Chain of Custody

Work Order No: _____

Page ___1___ of ___1___

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Mercury State Com (12.25.23)	Turn Around	☐ Routine ☑ Rush
Project Number:	2258	Due Date:	48 hr
Project Location	Eddy County, New Mexico		
Sampler's Name:	MM		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	TN#7
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-3.8
Total Containers:		Corrected Temperature:	-3.6

ANALYSIS REQUEST

890-6318 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O

Cool: Cool MeOH: Me

HCL: HC HNO_3: HN

H_2SO_4: H_2 NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300	Sample Comments
S-1 (0.5')	3/5/2024		X		G	1	X	X	X	
S-1 (1.0')	3/5/2024		X		G	1	X	X	X	
S-1 (1.5')	3/5/2024		X		G	1	X	X	X	
S-1 (2.0')	3/5/2024		X		G	1	X	X	X	

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	15:47 3/5		15:47 3/5

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-6318-1
SDG Number: 2258

Login Number: 6318
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-6318-1
SDG Number: 2258

Login Number: 6318
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 03/07/24 11:48 AM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/8/2024 11:23:36 AM

JOB DESCRIPTION

Mercury State Com (12.25.23)
2258

JOB NUMBER

890-6319-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

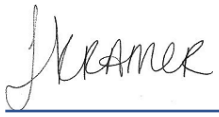
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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3/8/2024 11:23:36 AM

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

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Laboratory Job ID: 890-6319-1
SDG: 2258

Table of Contents

Definitions/Glossary

Client: Carmona Resources Job ID: 890-6319-1
Project/Site: Mercury State Com (12.25.23) SDG: 2258

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Mercury State Com (12.25.23)

Job ID: 890-6319-1

Job ID: 890-6319-1 Eurofins Carlsbad

Job Narrative
890-6319-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt
The samples were received on 3/5/2024 3:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (890-6319-1), H-2 (890-6319-2) and H-3 (890-6319-3).

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-74999 and analytical batch 880-75000 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-74935/2-A) and (LCSD 880-74935/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-74935 and analytical batch 880-74954 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74948 and analytical batch 880-75020 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

Client Sample ID: H-1

Lab Sample ID: 890-6319-1
Matrix: Solid
Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

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		03/07/24 12:23	03/07/24 21:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 21:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 21:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/07/24 12:23	03/07/24 21:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 21:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/24 12:23	03/07/24 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/07/24 12:23*	*03/07/24 21:34*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/07/24 12:23*	*03/07/24 21:34*	*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			03/07/24 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/07/24 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/24 16:51	03/07/24 14:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/24 16:51	03/07/24 14:26	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/24 16:51	03/07/24 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*03/06/24 16:51*	*03/07/24 14:26*	*1*
o-Terphenyl	*91*		*70 - 130*	*03/06/24 16:51*	*03/07/24 14:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**156**		4.97		mg/Kg			03/07/24 16:44	1

Client Sample ID: H-2

Lab Sample ID: 890-6319-2
Matrix: Solid
Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

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		03/07/24 12:23	03/07/24 22:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 22:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 22:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 22:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 22:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*03/07/24 12:23*	*03/07/24 22:00*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/07/24 12:23*	*03/07/24 22:00*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

Client Sample ID: H-2

Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Lab Sample ID: 890-6319-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/07/24 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			03/07/24 14:47	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	<50.3	U	50.3		mg/Kg		03/06/24 16:51	03/07/24 14:47	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		03/06/24 16:51	03/07/24 14:47	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		03/06/24 16:51	03/07/24 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*03/06/24 16:51*	*03/07/24 14:47*	*1*
o-Terphenyl	*84*		*70 - 130*	*03/06/24 16:51*	*03/07/24 14:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**536**		5.03		mg/Kg			03/07/24 16:50	1

Client Sample ID: H-3

Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Lab Sample ID: 890-6319-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 23:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 23:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 23:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/07/24 12:23	03/07/24 23:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 23:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/24 12:23	03/07/24 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*03/07/24 12:23*	*03/07/24 23:46*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/07/24 12:23*	*03/07/24 23:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/07/24 23:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/07/24 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/06/24 16:51	03/07/24 15:09	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/06/24 16:51	03/07/24 15:09	1

Client Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

Client Sample ID: H-3
Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Lab Sample ID: 890-6319-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/06/24 16:51	03/07/24 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*03/06/24 16:51*	*03/07/24 15:09*	*1*
o-Terphenyl	*83*		*70 - 130*	*03/06/24 16:51*	*03/07/24 15:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.4**	**F1**	5.03		mg/Kg			03/07/24 16:56	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-6319-1	H-1	115	96										
890-6319-2	H-2	127	89										
890-6319-3	H-3	122	89										
890-6320-A-21-D MS	Matrix Spike	113	92										
890-6320-A-21-E MSD	Matrix Spike Duplicate	125	84										
LCS 880-74999/1-A	Lab Control Sample	111	96										
LCSD 880-74999/2-A	Lab Control Sample Dup	117	97										
MB 880-74999/5-A	Method Blank	70	88										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-40252-A-1-H MS	Matrix Spike	105	85										
880-40252-A-1-I MSD	Matrix Spike Duplicate	125	100										
890-6319-1	H-1	102	91										
890-6319-2	H-2	95	84										
890-6319-3	H-3	97	83										
LCS 880-74935/2-A	Lab Control Sample	27 S1-	112										
LCSD 880-74935/3-A	Lab Control Sample Dup	23 S1-	104										
MB 880-74935/1-A	Method Blank	112	111										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74999/5-A
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 17:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*03/07/24 12:23*	*03/07/24 17:35*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/07/24 12:23*	*03/07/24 17:35*	*1*

Lab Sample ID: LCS 880-74999/1-A
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1195		mg/Kg		120	70 - 130
Toluene	0.100	0.1154		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1241		mg/Kg		124	70 - 130
m-Xylene & p-Xylene	0.200	0.2496		mg/Kg		125	70 - 130
o-Xylene	0.100	0.1221		mg/Kg		122	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-74999/2-A
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74999

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1178		mg/Kg		118	70 - 130	1	35
Toluene	0.100	0.1185		mg/Kg		119	70 - 130	3	35
Ethylbenzene	0.100	0.1248		mg/Kg		125	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2500		mg/Kg		125	70 - 130	0	35
o-Xylene	0.100	0.1231		mg/Kg		123	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-6320-A-21-D MS
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.101	0.1097		mg/Kg		109	70 - 130
Toluene	<0.00198	U	0.101	0.1128		mg/Kg		112	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

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

Lab Sample ID: 890-6320-A-21-D MS
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.101	0.1208		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.2435		mg/Kg		121	70 - 130
o-Xylene	<0.00198	U F1	0.101	0.1212		mg/Kg		120	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-6320-A-21-E MSD
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1252		mg/Kg		125	70 - 130	13	35
Toluene	<0.00198	U	0.0998	0.1197		mg/Kg		120	70 - 130	6	35
Ethylbenzene	<0.00198	U	0.0998	0.1290		mg/Kg		129	70 - 130	7	35
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.2605	F1	mg/Kg		131	70 - 130	7	35
o-Xylene	<0.00198	U F1	0.0998	0.1316	F1	mg/Kg		132	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

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

Lab Sample ID: MB 880-74935/1-A
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74935

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		03/06/24 16:51	03/07/24 08:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 08:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 08:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*03/06/24 16:51*	*03/07/24 08:02*	*1*
o-Terphenyl	*111*		*70 - 130*	*03/06/24 16:51*	*03/07/24 08:02*	*1*

Lab Sample ID: LCS 880-74935/2-A
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

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

Lab Sample ID: LCS 880-74935/2-A
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74935

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	27	S1-	70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-74935/3-A
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74935

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1088		mg/Kg		109	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	955.9		mg/Kg		96	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	23	S1-	70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-40252-A-1-H MS
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F2	1010	910.1		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	54.6		1010	1039		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-40252-A-1-I MSD
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F2	1010	1131	F2	mg/Kg		108	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	54.6		1010	1244		mg/Kg		118	70 - 130	18	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	100		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74948/1-A
Matrix: Solid
Analysis Batch: 75020

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/07/24 15:07	1

Lab Sample ID: LCS 880-74948/2-A
Matrix: Solid
Analysis Batch: 75020

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	229.4		mg/Kg		92	90 - 110		

Lab Sample ID: LCSD 880-74948/3-A
Matrix: Solid
Analysis Batch: 75020

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.6		mg/Kg		95	90 - 110	3	20

Lab Sample ID: 890-6319-3 MS
Matrix: Solid
Analysis Batch: 75020

Client Sample ID: H-3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	36.4	F1	252	271.7		mg/Kg		94	90 - 110		

Lab Sample ID: 890-6319-3 MSD
Matrix: Solid
Analysis Batch: 75020

Client Sample ID: H-3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	36.4	F1	252	254.1	F1	mg/Kg		87	90 - 110	7	20

QC Association Summary

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

GC VOA

Prep Batch: 74999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6319-1	H-1	Total/NA	Solid	5035	
890-6319-2	H-2	Total/NA	Solid	5035	
890-6319-3	H-3	Total/NA	Solid	5035	
MB 880-74999/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74999/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74999/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6320-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
890-6320-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 75000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6319-1	H-1	Total/NA	Solid	8021B	74999
890-6319-2	H-2	Total/NA	Solid	8021B	74999
890-6319-3	H-3	Total/NA	Solid	8021B	74999
MB 880-74999/5-A	Method Blank	Total/NA	Solid	8021B	74999
LCS 880-74999/1-A	Lab Control Sample	Total/NA	Solid	8021B	74999
LCSD 880-74999/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74999
890-6320-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	74999
890-6320-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	74999

Analysis Batch: 75076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6319-1	H-1	Total/NA	Solid	Total BTEX	
890-6319-2	H-2	Total/NA	Solid	Total BTEX	
890-6319-3	H-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 74935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6319-1	H-1	Total/NA	Solid	8015NM Prep	
890-6319-2	H-2	Total/NA	Solid	8015NM Prep	
890-6319-3	H-3	Total/NA	Solid	8015NM Prep	
MB 880-74935/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74935/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40252-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-40252-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6319-1	H-1	Total/NA	Solid	8015B NM	74935
890-6319-2	H-2	Total/NA	Solid	8015B NM	74935
890-6319-3	H-3	Total/NA	Solid	8015B NM	74935
MB 880-74935/1-A	Method Blank	Total/NA	Solid	8015B NM	74935
LCS 880-74935/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74935
LCSD 880-74935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74935
880-40252-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	74935
880-40252-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	74935

QC Association Summary

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

GC Semi VOA

Analysis Batch: 75026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6319-1	H-1	Total/NA	Solid	8015 NM	
890-6319-2	H-2	Total/NA	Solid	8015 NM	
890-6319-3	H-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 74948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6319-1	H-1	Soluble	Solid	DI Leach	
890-6319-2	H-2	Soluble	Solid	DI Leach	
890-6319-3	H-3	Soluble	Solid	DI Leach	
MB 880-74948/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74948/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74948/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6319-3 MS	H-3	Soluble	Solid	DI Leach	
890-6319-3 MSD	H-3	Soluble	Solid	DI Leach	

Analysis Batch: 75020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6319-1	H-1	Soluble	Solid	300.0	74948
890-6319-2	H-2	Soluble	Solid	300.0	74948
890-6319-3	H-3	Soluble	Solid	300.0	74948
MB 880-74948/1-A	Method Blank	Soluble	Solid	300.0	74948
LCS 880-74948/2-A	Lab Control Sample	Soluble	Solid	300.0	74948
LCSD 880-74948/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74948
890-6319-3 MS	H-3	Soluble	Solid	300.0	74948
890-6319-3 MSD	H-3	Soluble	Solid	300.0	74948

Lab Chronicle

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

Client Sample ID: H-1

Lab Sample ID: 890-6319-1
Matrix: Solid
Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

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	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 21:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75076	03/07/24 21:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			75026	03/07/24 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 14:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1			75020	03/07/24 16:44	CH	EET MID

Client Sample ID: H-2

Lab Sample ID: 890-6319-2
Matrix: Solid
Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 22:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75076	03/07/24 22:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			75026	03/07/24 14:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 14:47	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1			75020	03/07/24 16:50	CH	EET MID

Client Sample ID: H-3

Lab Sample ID: 890-6319-3
Matrix: Solid
Date Collected: 03/05/24 00:00
Date Received: 03/05/24 15:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 23:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75076	03/07/24 23:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			75026	03/07/24 15:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 15:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1			75020	03/07/24 16:56	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 890-6319-1
Project/Site: Mercury State Com (12.25.23)
SDG: 2258

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	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Carmona Resources
Project/Site: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

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: Mercury State Com (12.25.23)

Job ID: 890-6319-1
SDG: 2258

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6319-1	H-1	Solid	03/05/24 00:00	03/05/24 15:47
890-6319-2	H-2	Solid	03/05/24 00:00	03/05/24 15:47
890-6319-3	H-3	Solid	03/05/24 00:00	03/05/24 15:47

Chain of Custody

Work Order No: _____

Page 1 of 1

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Mercury State Com (12.25.23)	Turn Around	
Project Number:	2258	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date:	48 hr
Sampler's Name:	MM		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	TNN007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-3.8
Total Containers:		Corrected Temperature:	-3.6

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300	Sample Comments
H-1 (0-0.5')	3/5/2024		X		G	1		X	X	X	
H-2 (0-0.5')	3/5/2024		X		G	1		X	X	X	
H-3 (0-0.5')	3/5/2024		X		G	1		X	X	X	

890-6319 Chain of Custody

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	15:47 3/5		15:47 3/5

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-6319-1
SDG Number: 2258

Login Number: 6319
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-6319-1
SDG Number: 2258

Login Number: 6319
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 03/07/24 11:48 AM

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

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

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 330867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2336062739**
Incident Name	**NAPP2336062739 MERCURY STATE COM CTB @ 0**
Incident Type	**Fire**
Incident Status	**Reclamation Report Received**
Incident Facility	**[fAPP2203555433] MERCURY ST COM CTB**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Mercury State Com CTB
Date Release Discovered	12/25/2023
Surface Owner	State

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

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

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 330867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more;** **(2) an unauthorized release of a volume that:** **(a) results in a fire or is the result of a fire.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 04/02/2024

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 330867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	536
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	50.4
GRO+DRO (EPA SW-846 Method 8015M)	50.4
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	03/05/2024
On what date will (or did) the final sampling or liner inspection occur	03/05/2024
On what date will (or was) the remediation complete(d)	03/06/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 330867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	Yes
Which OCD approved facility will be used for **on-site** disposal	MERCURY ST COM CTB [fAPP2203555433]
OR which OCD approved well (API) will be used for **on-site** disposal	*Not answered.*
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 04/08/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 330867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 330867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**330878**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/05/2024**
What was the (estimated) number of samples that were to be gathered	**4**
What was the sampling surface area in square feet	**0**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	all on pad.

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

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I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 04/08/2024

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 330867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	0
What was the total volume of replacement material (in cubic yards) for this site	0
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	03/05/2024
Summarize any additional reclamation activities not included by answers (above)	all on pad, no reseeding needed.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
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QUESTIONS (continued)

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	Action Number: 330867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 330867

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2336062739 MERCURY STATE COM CTB, thank you. This Remediation Closure Report is approved.	5/8/2024