CARMONA RESOURCES

SITE INFORMATION

Closure Report
Jack Federal 004H (03/25/22)
Incident #: NAPP2209836962
Eddy County, New Mexico
Unit B Sec 31 T25S R27E
32.092947°, -104.228697°

Crude Oil Release
Point of Release: Flare fire
Release Date: 03/25/2022
Volume Released: 0.45 barrels of Crude Oil
Volume Recovered: 0 barrels of Crude Oil

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 415
Midland, Texas 79701

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

CARMONA RESOURCES

TABLE OF CONTENTS

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

CARMONA RESOURCES

June 15, 2022

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

Re: Closure Report
Jack Federal 004H (03.25.22)
Concho Operating, LLC
Site Location: Unit B, S31, T25S, R27E
(Lat 32.092947º, Long -104.228697º)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities. The site is located at 32.092947, -104.228697 within Unit B, S31, T25S, R27E, and in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on March 25, 2022, caused by a loss of gas pressure resulting in a flare fire. It resulted in releasing approximately 0.45 barrels of crude oil, and 0 barrels were recovered. The impacted area measured approximately 35’ x 16’ shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source is within a 0.50-mile radius of the location. The nearest identified well is approximately 1.11 miles Northwest of the site in S25, T25S, R26E and was drilled in 2018. The well has a reported depth to groundwater of 13.96' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On May 7, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) sample points (S-1 and S-2) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 0.5 ft below the surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory

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

CARMONA RESOURCES

analysis and chain-of-custody documentation are includedin Appendix E. The sample locations are shown in Figure 3.

Referring to Table 1, the area of S-1 showed a high TPH concentration at the surface to 3" below the surface, then declined with depth. The area of S-2 showed high a TPH concentration of 124 mg/kg at the surface to 3" and 245 mg/kg at 6" below the surface, vertically delineation was not achieved. Horizontal delineation was achieved for the areas of H-1, H-2, H-3, and H-4.

5.0 Remediation Activities

Carmona Resources personnel were onsite from June 9-10th, 2022, to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on June 7, 2022, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of S-1 and S-2 were excavated to a depth of 1.0' below the surface to remove all the impacted soils. A total of four (4) floor confirmation samples were collected (CS-1 through CS-4), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 20 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,
Carmona Resources, LLC

Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

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

FIGURES

CARMONA RESOURCES

OVERVIEW MAP
COG OPERATING

JACK FEDERAL 004H

03/25/22

EDDY COUNTY, NEW MEXICO

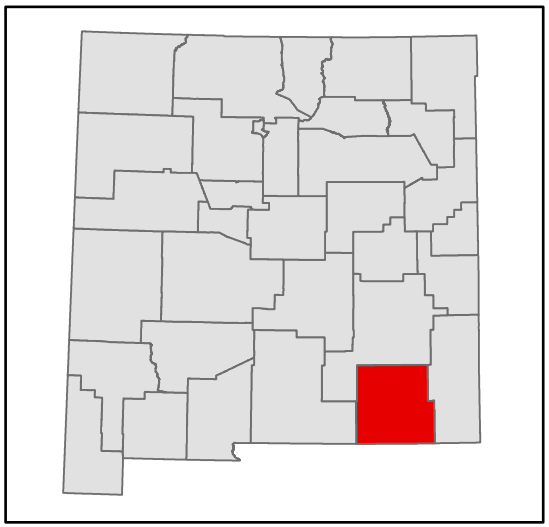
32.092947°, -104.228697°

N
W E
S

0 1 2 4

Miles

Site Location

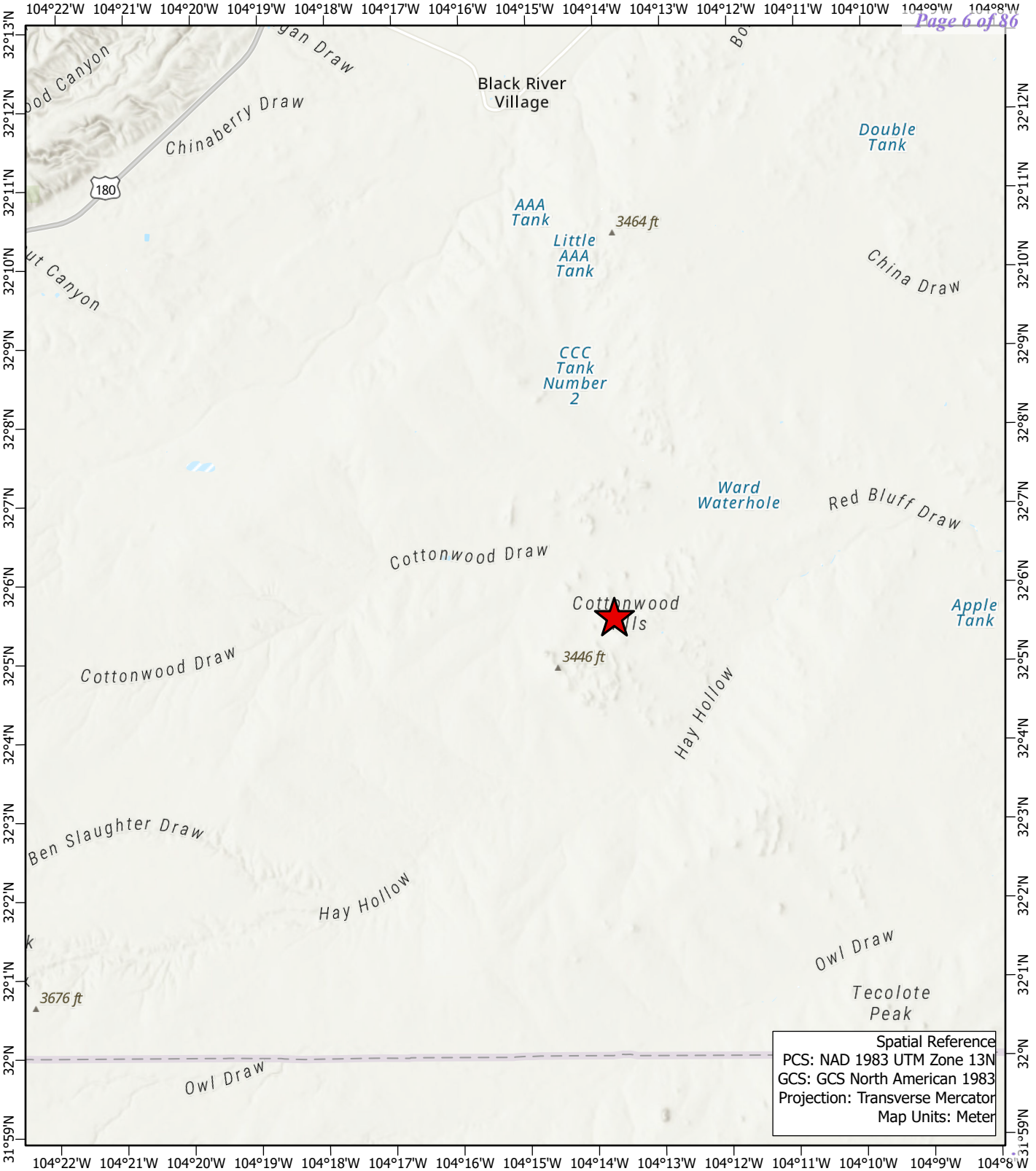


CARMONA RESOURCES

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

DRAWING NUMBER: **Figure 1**

SHEET NUMBER: **1 of 1**

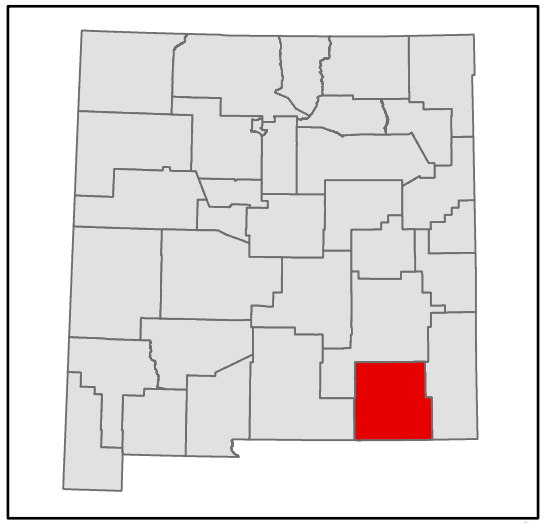


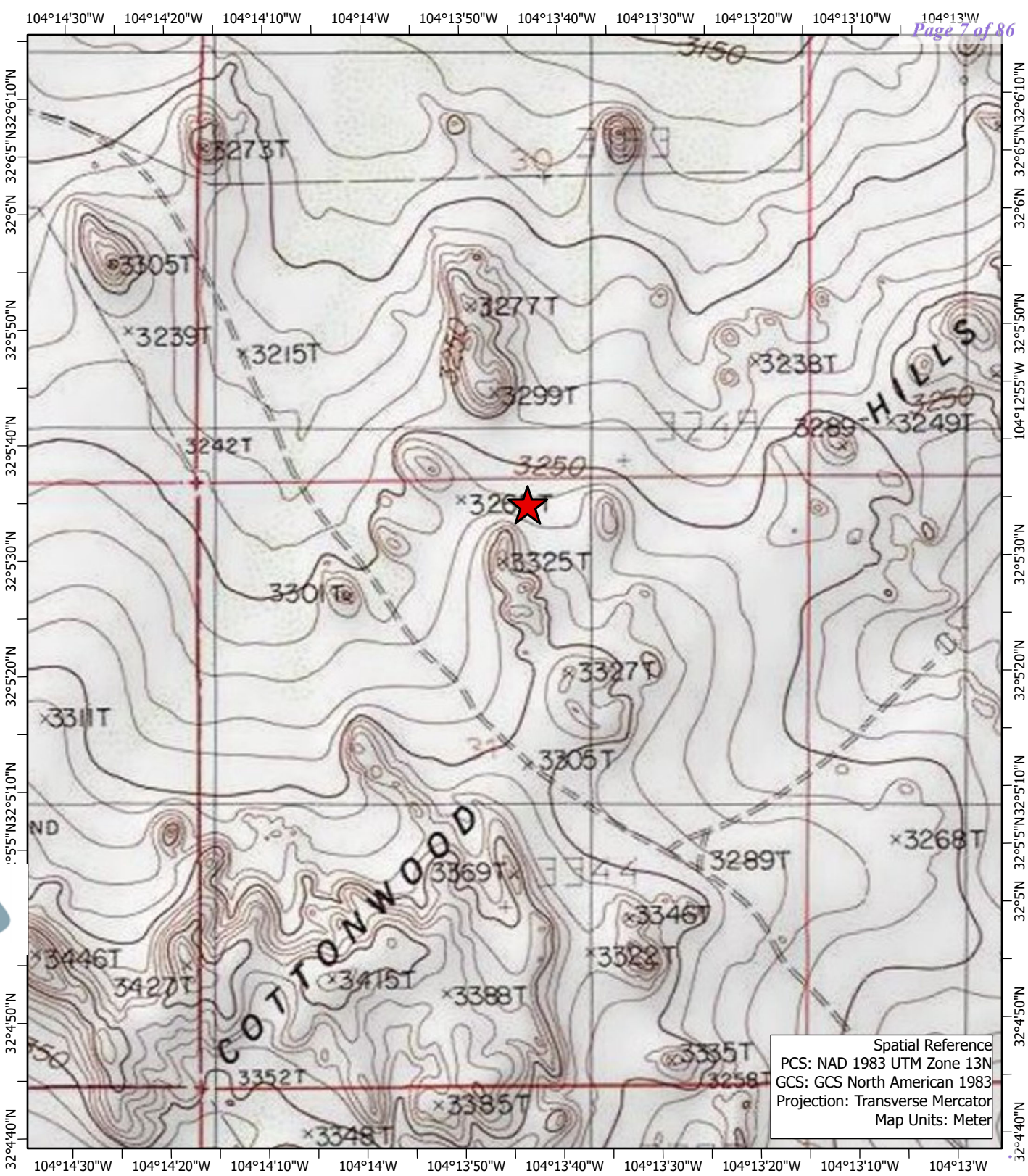
TOPOGRAPHIC MAP
COG OPERATING

JACK FEDERAL 004H
03/25/22
EDDY COUNTY, NEW MEXICO
32.092947°, -104.228697°

0 0.1 0.3 0.5
Miles

Site Location





CARMONA RESOURCES

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

DRAWING NUMBER: **Figure 2**
SHEET NUMBER: **1 of 1**

SAMPLE LOCATION MAP
COG OPERATING

JACK FEDERAL 004H
03/25/22
EDDY COUNTY, NEW MEXICO
32.092947°, -104.228697°

N
W E
S

0 10 20 40
Feet

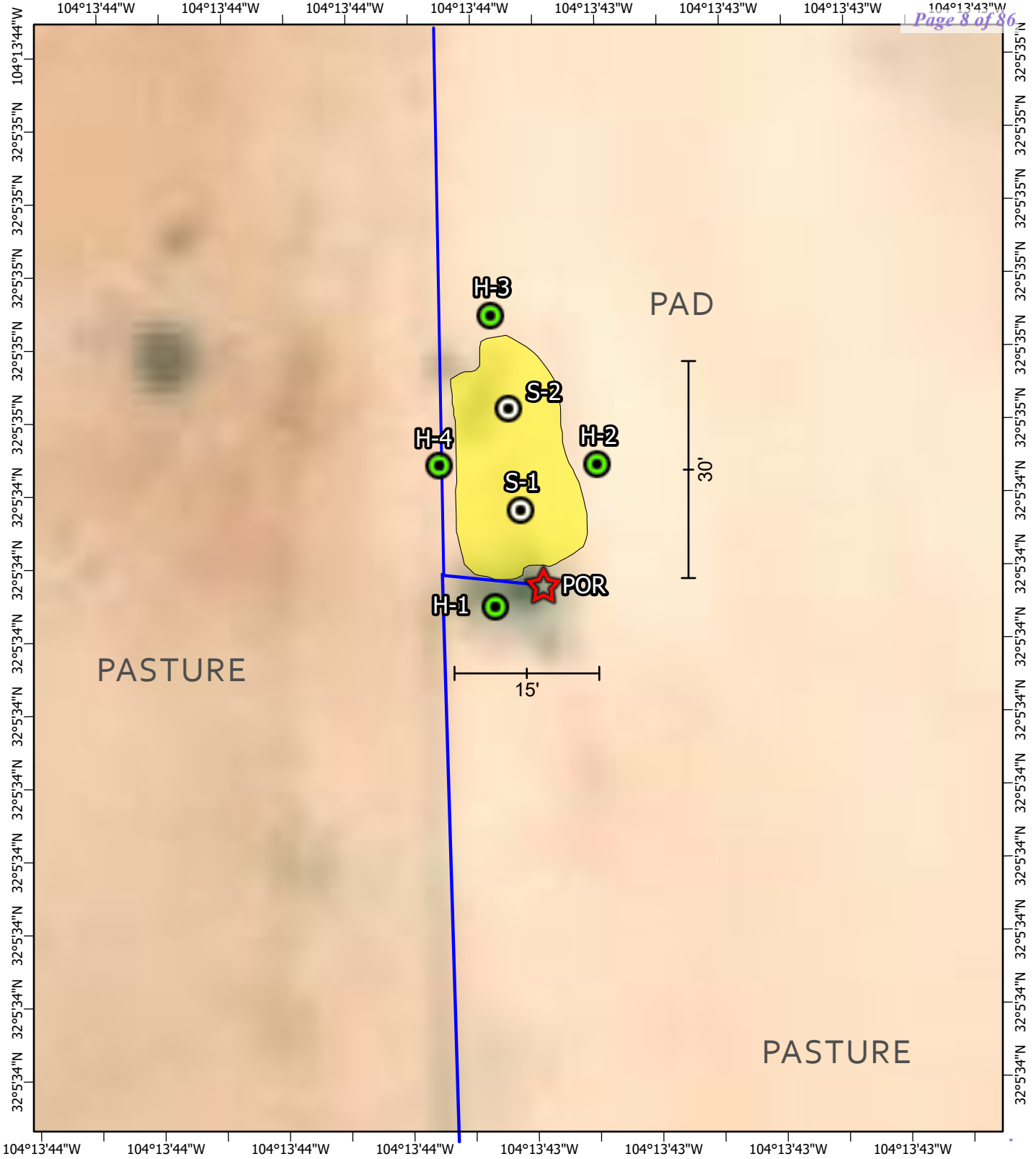
Legend

- Point of Release
- Sample Point
- Horizontal Sample
- Surface Steel Line
- Area of Concern

Spatial Reference
PCS: NAD 1983 UTM Zone 13N
GCS: GCS North American 1983
Projection: Transverse Mercator
Map Units: Meter
Date Exported: 06/15/2022

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

DRAWING NUMBER: **Figure 3**
SHEET NUMBER: **1 of 1**



EXCAVATION DEPTH MAP
COG OPERATING
JACK FEDERAL 004H
03/25/22
EDDY COUNTY, NEW MEXICO
32.092947°, -104.228697°

N
W E
S

0 2.5 5 10
Feet

Legend

- Point of Release
- Confirmation Sample
- Sidewall Sample
- Surface Steel Line
- 1' Excavation

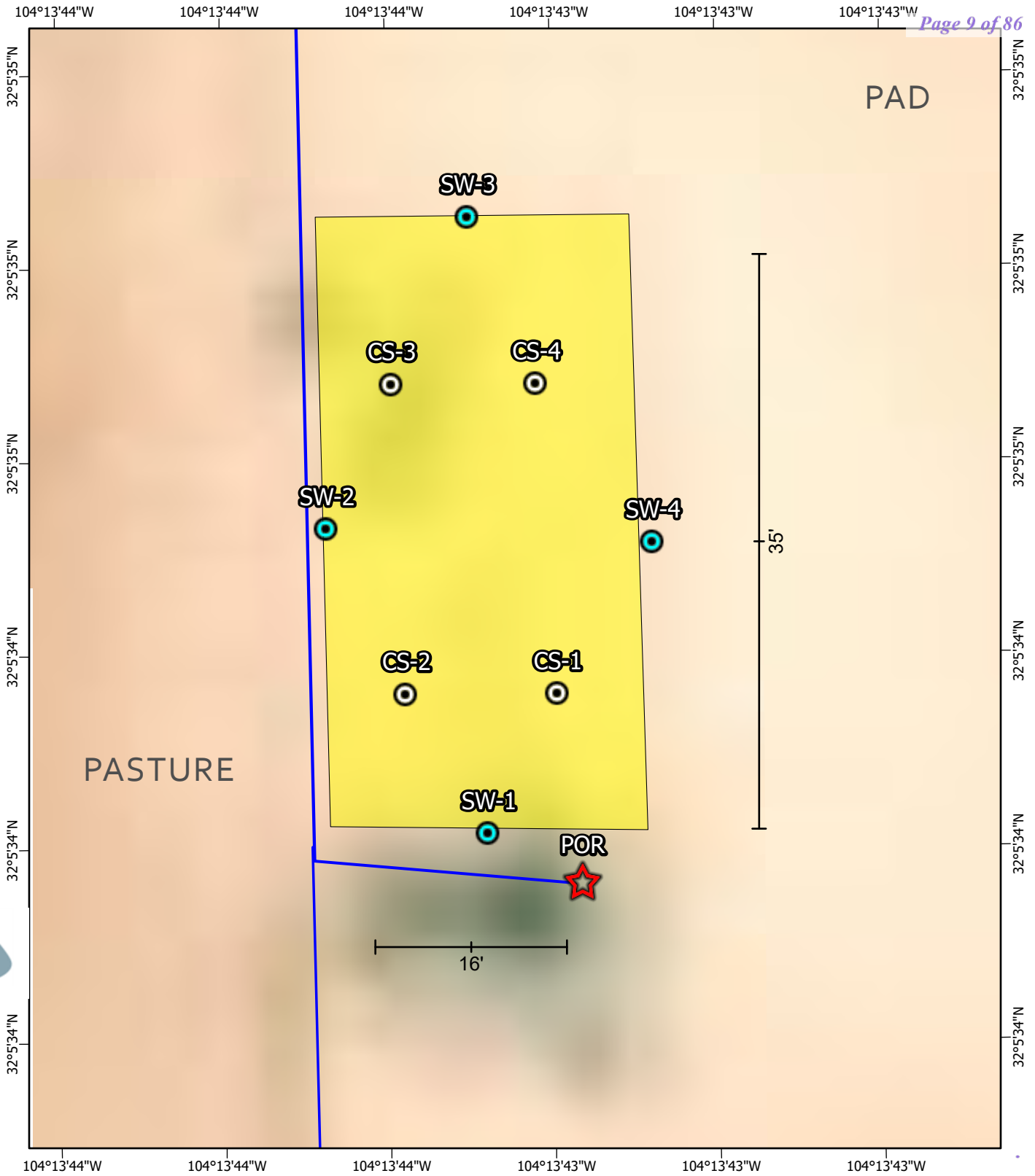
Spatial Reference
PCS: NAD 1983 UTM Zone 13N
GCS: GCS North American 1983
Projection: Transverse Mercator
Map Units: Meter

Date Exported: 06/15/2022

CARMONA RESOURCES

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

DRAWING NUMBER: **Figure 4**
SHEET NUMBER: **1 of 1**



APPENDIX A

CARMONA RESOURCES

Table 1
COG
Jack Fedreal 004H (03.25.22)
Eddy County, New Mexico

Sample ID	Date	Depth (in)	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	5/7/2022	0-3	<249	**5,990**	<249	**5,990**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	81.0
	"	6	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	25.1
S-2	5/7/2022	0-3	<50.0	**124**	<50.0	**124**	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	51.6
	"	6	<50.0	**245**	<50.0	**245**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	120
H-1	5/7/2022	0-3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<4.99
H-2	5/7/2022	0-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99
H-3	5/7/2022	0-3	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<4.95
H-4	5/7/2022	0-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.97
Regulatory Criteria [A]						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

[A] – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

(H) Horizontal

Removed

Table 2
COG
Jack Fedreal 004H (03.25.22)
Eddy County, New Mexico

Sample ID	Date	Depth (in)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	6/9/2022	1.0	<50.0	<50.0	<50.0	50.0>	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	12.7
CS-2	6/9/2022	1.0	<50.0	<50.0	<50.0	50.0>	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	13.2
CS-3	6/9/2022	1.0	<49.9	<49.9	<49.9	49.9>	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	12.8
CS-4	6/9/2022	1.0	<50.0	<50.0	<50.0	50.0>	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	11.3
SW-1	6/9/2022	1.0	<49.9	<49.9	<49.9	49.9>	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	12.9
SW-2	6/9/2022	1.0	<49.9	<49.9	<49.9	49.9>	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	10.4
SW-3	6/9/2022	1.0	<50.0	<50.0	<50.0	50.0>	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	11.8
SW-4	6/9/2022	1.0	<50.0	<50.0	<50.0	50.0>	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	14.5
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**	-	-	-	**50 mg/kg**	**600 mg/kg**

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

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Jack Federal 004H (03.25.22)

County: Eddy County, New Mexico

Description:
View South, area of sample points (1-2).

Photograph No. 2

Facility: Jack Federal 004H (03.25.22)

County: Eddy County, New Mexico

Description:
View East, area of confirmation samples (1-4).

Photograph No. 3

Facility: Jack Federal 004H (03.25.22)

County: Eddy County, New Mexico

Description:
View West, area of confirmation samples (1-4).

CARMONA RESOURCES

APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Form C-141
Page 2

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: _____

L48 Spill Volume Estimate Form

Facility Name & Number:	Jack Fed #4
Asset Area:	DBWN
Release Discovery Date & Time:	3/25/2022
Release Type:	Oil
Provide any known details about the event:	

Spill Calculation - Subsurface Spill - Rectangle

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

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	19.0	20.0	0.75	10.50%	4.228	0.444			
Rectangle B					0.000	0.000			
Rectangle C					0.000	0.000			
Rectangle D					0.000	0.000			
Rectangle E					0.000	0.000			
Rectangle F					0.000	0.000			
Rectangle G					0.000	0.000			
Rectangle H					0.000	0.000			
Rectangle I					0.000	0.000			
Rectangle J					0.000	0.000			
					Total Volume Release:	0.444			

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: 7.6.22

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: 7.6.22

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: _____

From: Mike Carmona
Sent: Tuesday, June 7, 2022 11:06 AM
To: OCD.Enviro@state.nm.us
Cc: Harris, Jacqui; Clint Merritt
Subject: COG Jack Federal 004H (03.25.22)Sampling Notification

Good Morning,

On behalf of COG, Carmona Resources will be collecting confirmation samples at the below-referenced site for the at-risk remediation on 6/09/22 around 12 p.m. Mountain Time. Please let me know if you have any questions.

COG Jack Federal 004H (03.25.22)
Sec 31 T25S R27E Unit B
32.092947°, -104.228697°
Eddy County, New Mexico

Mike J. Carmona
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

COG OPERATING

13.96' - Drilled 2018

Jack Fed 004H (03.25.22)

20' - Drilled 2018

20' - Drilled 2018

748

Legend

- 0.50 Mile Radius
- 1.11 Miles
- 1.84 Miles
- 1.87 Miles
- NMSEO Water Well
- Jack Fed 004H (03.25.22)
- USGS Water WEll

N

4000 ft

Google Earth

HIGH KARST

COG OPERATING

Legend

- High
- Jack Fed 004H (03.25.22)
- Medium

Jack Fed 004H (03.25.22)

748

Google Earth

1 mi

N

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	Depth Well	Depth Water	Water Column
C 02588	C	ED	3	4	3	33	25S	27E	575645	3549575*	81	19	62
C 03261 POD1	CUB	ED	3	2	1	20	25S	27E	574007	3554006*	351		
C 03262 POD1	CUB	ED	2	1	2	22	25S	27E	577837	3554244*	75		
C 03264 POD1	CUB	ED	2	1	2	02	25S	27E	579391	3559099*			
C 03938 POD1	CUB	ED	2	2	2	25	25S	27E	581482	3552616	21	12	9
C 04078 POD1	CUB	ED	3	4	1	33	25S	27E	575667	3550363	157	20	137
C 04079 POD1	CUB	ED	1	2	3	33	25S	27E	575658	3550092	226	20	206
C 04371 POD1	CUB	ED	3	3	4	26	25S	27E	579369	3551272	100	69	31

Average Depth to Water: **28 feet**
Minimum Depth: **12 feet**
Maximum Depth: **69 feet**

Record Count: 8

PLSS Search:

Township: 25S **Range:** 27E

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

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 =
- 320616104142801

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

USGS 320616104142801 25S.26E.25.23231

Eddy County, New Mexico
Latitude 32°06'12.6", Longitude 104°14'33.9" NAD83
Land-surface elevation 3,188.60 feet above NGVD29
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 of measurement
1978-01-25		D	62610		3184.39	NGVD29	1	Z		
1978-01-25		D	62611		3186.05	NAVD88	1	Z		
1978-01-25		D	72019	4.21			1	Z		
1983-02-01		D	62610		3185.96	NGVD29	1	Z		
1983-02-01		D	62611		3187.62	NAVD88	1	Z		
1983-02-01		D	72019	2.64			1	Z		
1987-10-08		D	62610		3185.63	NGVD29	1	Z		
1987-10-08		D	62611		3187.29	NAVD88	1	Z		
1987-10-08		D	72019	2.97			1	Z		
1992-11-04		D	62610		3186.55	NGVD29	1	S		
1992-11-04		D	62611		3188.21	NAVD88	1	S		
1992-11-04		D	72019	2.05			1	S		
1998-01-07		D	62610		3186.62	NGVD29	1	S		
1998-01-07		D	62611		3188.28	NAVD88	1	S		
1998-01-07		D	72019	1.98			1	S		
2003-01-28		D	62610		3181.38	NGVD29	1	S	USGS	
2003-01-28		D	62611		3183.04	NAVD88	1	S	USGS	
2003-01-28		D	72019	7.22			1	S	USGS	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
2013-01-09	22:45 UTC	m	62610		3177.78	NGVD29	1	S	USGS	
2013-01-09	22:45 UTC	m	62611		3179.44	NAVD88	1	S	USGS	
2013-01-09	22:45 UTC	m	72019	10.82			1	S	USGS	
2018-02-13	22:15 UTC	m	62610		3174.64	NGVD29	1	S	USGS	
2018-02-13	22:15 UTC	m	62611		3176.30	NAVD88	1	S	USGS	
2018-02-13	22:15 UTC	m	72019	13.96			1	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
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 about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-05-08 15:38:17 EDT
0.34 0.29 nadww01

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04078 POD1	3	4	1	33	25S	27E	575667	3550363

Driller License: 1690 **Driller Company:** VISION RESOURCES, INC

Driller Name: JASON MALEY

Drill Start Date: 05/23/2018 **Drill Finish Date:** 05/24/2018 **Plug Date:**

Log File Date: 06/25/2018 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 90 GPM

Casing Size: 6.00 **Depth Well:** 157 feet **Depth Water:** 20 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	35	Shale/Mudstone/Siltstone
	35	85	Sandstone/Gravel/Conglomerate
	85	110	Sandstone/Gravel/Conglomerate
	110	150	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	38	157

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)

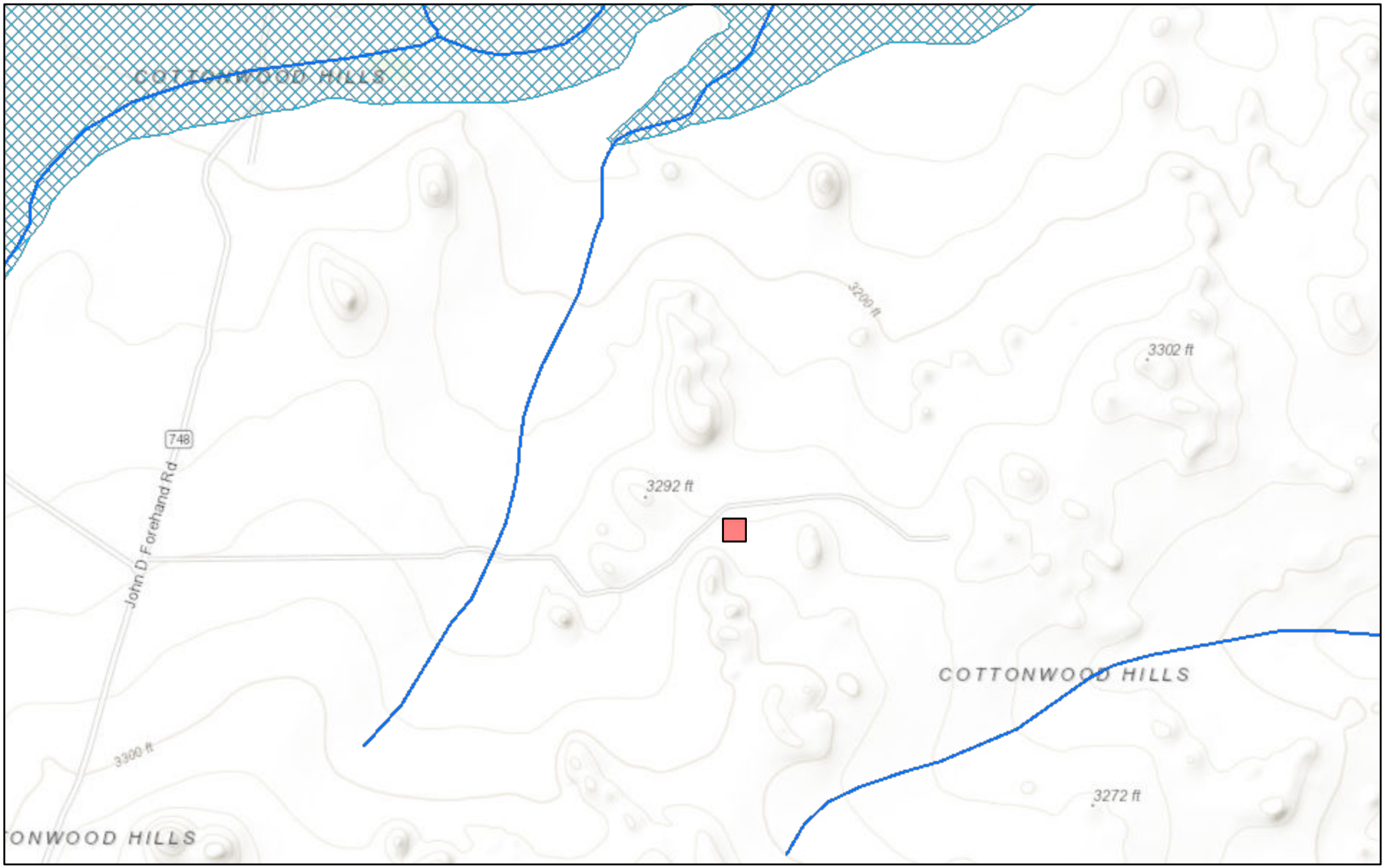
Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
NA	C 04079 POD1	1	2	3	33	25S	27E	575658	3550092

Driller License:	1690	**Driller Company:**	VISION RESOURCES, INC		
Driller Name:	JASON MALEY				
Drill Start Date:	05/21/2018	**Drill Finish Date:**	05/22/2018	**Plug Date:**	
Log File Date:	06/25/2018	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	90 GPM
Casing Size:	6.00	**Depth Well:**	226 feet	**Depth Water:**	20 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	30	Sandstone/Gravel/Conglomerate
	30	45	Sandstone/Gravel/Conglomerate
	45	160	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	2	225

New Mexico NFHL Data



May 8, 2022

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

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

nmflood.org is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-14533-1
Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: Jack Federal 004H (03.25.22)

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

Attn: Conner Moehring

JKramer

Authorized for release by:
5/12/2022 3:48:13 PM

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

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

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

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Laboratory Job ID: 880-14533-1
SDG: Eddy Co, NM

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Job ID: 880-14533-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-14533-1

Receipt
The samples were received on 5/9/2022 12:00 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 3.3°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25088 and analytical batch 880-25306 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside of acceptance limits: S-1 (0-3") (880-14533-1), S-1 (6") (880-14533-2), S-2 (6") (880-14533-4), H-1 (0-3") (880-14533-5), H-2 (0-3") (880-14533-6), H-4 (0-3") (880-14533-8) and (CCV 880-25306/20). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-1 (0-3") (880-14533-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-25129/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-25129 and analytical batch 880-25066 recovered outside control limits for the following analytes: <AffectedAnalytes>.

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (0-3")

Lab Sample ID: 880-14533-1
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 16:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 16:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 16:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/09/22 13:00	05/11/22 16:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 16:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/09/22 13:00	05/11/22 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*05/09/22 13:00*	*05/11/22 16:13*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*05/09/22 13:00*	*05/11/22 16:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/12/22 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**5990**		249		mg/Kg			05/10/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U *1	249		mg/Kg		05/09/22 15:08	05/10/22 06:07	5
Diesel Range Organics (Over C10-C28)	**5990**		249		mg/Kg		05/09/22 15:08	05/10/22 06:07	5
OII Range Organics (Over C28-C36)	<249	U	249		mg/Kg		05/09/22 15:08	05/10/22 06:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/09/22 15:08*	*05/10/22 06:07*	*5*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*05/09/22 15:08*	*05/10/22 06:07*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.0**		4.95		mg/Kg			05/12/22 10:27	1

Client Sample ID: S-1 (6")

Lab Sample ID: 880-14533-2
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 16:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 16:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 16:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 13:00	05/11/22 16:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 16:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 13:00	05/11/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*05/09/22 13:00*	*05/11/22 16:38*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*05/09/22 13:00*	*05/11/22 16:38*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (6")

Lab Sample ID: 880-14533-2
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Method: 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			05/12/22 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		05/09/22 15:08	05/10/22 03:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 03:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/09/22 15:08*	*05/10/22 03:41*	*1*
o-Terphenyl	*115*		*70 - 130*	*05/09/22 15:08*	*05/10/22 03:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.1**		5.04		mg/Kg			05/12/22 10:36	1

Client Sample ID: S-2 (0-3")

Lab Sample ID: 880-14533-3
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/09/22 13:00	05/11/22 17:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/09/22 13:00	05/11/22 17:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/09/22 13:00	05/11/22 17:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/09/22 13:00	05/11/22 17:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/09/22 13:00	05/11/22 17:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/09/22 13:00	05/11/22 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*05/09/22 13:00*	*05/11/22 17:04*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/09/22 13:00*	*05/11/22 17:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/12/22 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**124**		50.0		mg/Kg			05/10/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		05/09/22 15:08	05/10/22 04:01	1
Diesel Range Organics (Over C10-C28)	**124**		50.0		mg/Kg		05/09/22 15:08	05/10/22 04:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (0-3")

Lab Sample ID: 880-14533-3
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*05/09/22 15:08*	*05/10/22 04:01*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/09/22 15:08*	*05/10/22 04:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.6**		5.02		mg/Kg			05/12/22 10:45	1

Client Sample ID: S-2 (6")

Lab Sample ID: 880-14533-4
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 17:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 17:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 17:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/09/22 13:00	05/11/22 17:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:00	05/11/22 17:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/09/22 13:00	05/11/22 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*05/09/22 13:00*	*05/11/22 17:30*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*05/09/22 13:00*	*05/11/22 17:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/12/22 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**245**		50.0		mg/Kg			05/10/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		05/09/22 15:08	05/10/22 04:22	1
Diesel Range Organics (Over C10-C28)	**245**		50.0		mg/Kg		05/09/22 15:08	05/10/22 04:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/09/22 15:08*	*05/10/22 04:22*	*1*
o-Terphenyl	*103*		*70 - 130*	*05/09/22 15:08*	*05/10/22 04:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		5.02		mg/Kg			05/12/22 10:55	1

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Client Sample ID: H-1 (0-3")

Lab Sample ID: 880-14533-5
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 17:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 17:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 17:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/09/22 13:00	05/11/22 17:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/09/22 13:00	05/11/22 17:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/09/22 13:00	05/11/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*70 - 130*	*05/09/22 13:00*	*05/11/22 17:56*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*05/09/22 13:00*	*05/11/22 17:56*	*1*

Method: 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			05/12/22 13:53	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	49.9		mg/Kg		05/09/22 15:08	05/10/22 04:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 04:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/09/22 15:08*	*05/10/22 04:43*	*1*
o-Terphenyl	*102*		*70 - 130*	*05/09/22 15:08*	*05/10/22 04:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			05/12/22 03:25	1

Client Sample ID: H-2 (0-3")

Lab Sample ID: 880-14533-6
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 18:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 18:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 18:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/09/22 13:00	05/11/22 18:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 18:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/09/22 13:00	05/11/22 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*05/09/22 13:00*	*05/11/22 18:21*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*05/09/22 13:00*	*05/11/22 18:21*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Client Sample ID: H-2 (0-3")

Lab Sample ID: 880-14533-6
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/12/22 13:53	1

Method: 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			05/10/22 09:24	1

Method: 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 *1	49.9		mg/Kg		05/09/22 15:08	05/10/22 05:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 05:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/09/22 15:08	05/10/22 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*05/09/22 15:08*	*05/10/22 05:04*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/09/22 15:08*	*05/10/22 05:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			05/12/22 03:34	1

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

Lab Sample ID: 880-14533-7
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/09/22 13:00	05/11/22 18:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/09/22 13:00	05/11/22 18:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/09/22 13:00	05/11/22 18:47	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/09/22 13:00	05/11/22 18:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/09/22 13:00	05/11/22 18:47	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/09/22 13:00	05/11/22 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/09/22 13:00*	*05/11/22 18:47*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*05/09/22 13:00*	*05/11/22 18:47*	*1*

Method: 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			05/12/22 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		05/09/22 15:08	05/10/22 05:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 05:25	1

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14533-7
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/09/22 15:08*	*05/10/22 05:25*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/09/22 15:08*	*05/10/22 05:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			05/12/22 03:43	1

Client Sample ID: H-4 (0-3")

Lab Sample ID: 880-14533-8
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 19:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 19:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 19:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/09/22 13:00	05/11/22 19:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/09/22 13:00	05/11/22 19:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/09/22 13:00	05/11/22 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*168*	*S1+*	*70 - 130*	*05/09/22 13:00*	*05/11/22 19:13*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/09/22 13:00*	*05/11/22 19:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/12/22 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		05/09/22 15:08	05/10/22 05:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 05:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/10/22 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/09/22 15:08*	*05/10/22 05:46*	*1*
o-Terphenyl	*101*		*70 - 130*	*05/09/22 15:08*	*05/10/22 05:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			05/12/22 03:53	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-14533-1	S-1 (0-3")	148 S1+	77
880-14533-2	S-1 (6")	141 S1+	72
880-14533-3	S-2 (0-3")	134 S1+	81
880-14533-4	S-2 (6")	139 S1+	77
880-14533-5	H-1 (0-3")	153 S1+	80
880-14533-6	H-2 (0-3")	144 S1+	75
880-14533-7	H-3 (0-3")	115	72
880-14533-8	H-4 (0-3")	168 S1+	86
890-2270-A-1-D MS	Matrix Spike	154 S1+	89
890-2270-A-1-E MSD	Matrix Spike Duplicate	129	97
LCS 880-25088/1-A	Lab Control Sample	150 S1+	94
LCSD 880-25088/2-A	Lab Control Sample Dup	137 S1+	85
MB 880-25088/5-A	Method Blank	107	76

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14532-A-2-C MS	Matrix Spike	104	100
880-14532-A-2-D MSD	Matrix Spike Duplicate	102	98
880-14533-1	S-1 (0-3")	91	152 S1+
880-14533-2	S-1 (6")	107	115
880-14533-3	S-2 (0-3")	94	96
880-14533-4	S-2 (6")	98	103
880-14533-5	H-1 (0-3")	99	102
880-14533-6	H-2 (0-3")	85	91
880-14533-7	H-3 (0-3")	97	100
880-14533-8	H-4 (0-3")	96	101
LCS 880-25129/2-A	Lab Control Sample	116	121
LCSD 880-25129/3-A	Lab Control Sample Dup	129	136 S1+
MB 880-25129/1-A	Method Blank	99	107

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25088/5-A
Matrix: Solid
Analysis Batch: 25306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 11:53	05/11/22 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/09/22 11:53*	*05/11/22 14:53*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*05/09/22 11:53*	*05/11/22 14:53*	*1*

Lab Sample ID: LCS 880-25088/1-A
Matrix: Solid
Analysis Batch: 25306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1130		mg/Kg		113	70 - 130
Toluene	0.100	0.1120		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1247		mg/Kg		125	70 - 130
m-Xylene & p-Xylene	0.200	0.2529		mg/Kg		126	70 - 130
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-25088/2-A
Matrix: Solid
Analysis Batch: 25306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1079		mg/Kg		108	70 - 130	5	35
Toluene	0.100	0.1095		mg/Kg		109	70 - 130	2	35
Ethylbenzene	0.100	0.1195		mg/Kg		120	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2415		mg/Kg		121	70 - 130	5	35
o-Xylene	0.100	0.1191		mg/Kg		119	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 890-2270-A-1-D MS
Matrix: Solid
Analysis Batch: 25306

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 25088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130
Toluene	<0.00202	U F2 F1	0.0996	<0.00199	U F1	mg/Kg		2	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-2270-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 25306 — **Prep Batch: 25088**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U F2 F1	0.0996	<0.00199	U F1	mg/Kg		2	70 - 130
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.199	0.004587	F1	mg/Kg		2	70 - 130
o-Xylene	<0.00202	U F2 F1	0.0996	0.002450	F1	mg/Kg		2	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 890-2270-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 25306 — **Prep Batch: 25088**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0992	0.08006		mg/Kg		81	70 - 130	NC	35
Toluene	<0.00202	U F2 F1	0.0992	0.06652	F2 F1	mg/Kg		67	70 - 130	189	35
Ethylbenzene	<0.00202	U F2 F1	0.0992	0.06049	F2 F1	mg/Kg		61	70 - 130	190	35
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.198	0.1214	F2 F1	mg/Kg		61	70 - 130	185	35
o-Xylene	<0.00202	U F2 F1	0.0992	0.06340	F2 F1	mg/Kg		64	70 - 130	185	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: MB 880-25129/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 25066 — **Prep Batch: 25129**

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		05/09/22 15:08	05/09/22 21:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/09/22 21:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/09/22 15:08	05/09/22 21:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/09/22 15:08*	*05/09/22 21:24*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/09/22 15:08*	*05/09/22 21:24*	*1*

Lab Sample ID: LCS 880-25129/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 25066 — **Prep Batch: 25129**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	967.2		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1261		mg/Kg		126	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-25129/2-A
Matrix: Solid
Analysis Batch: 25066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: LCSD 880-25129/3-A
Matrix: Solid
Analysis Batch: 25066

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25129

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1209	*1	mg/Kg		121	70 - 130	22	20
Diesel Range Organics (Over C10-C28)			1000	1292		mg/Kg		129	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: 880-14532-A-2-C MS
Matrix: Solid
Analysis Batch: 25066

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 25129

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	1000	920.8		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	567		1000	1331		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-14532-A-2-D MSD
Matrix: Solid
Analysis Batch: 25066

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 25129

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	903.2		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	567		998	1296		mg/Kg		73	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	98		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25206/1-A
Matrix: Solid
Analysis Batch: 25318

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			05/11/22 23:16	1

Lab Sample ID: LCS 880-25206/2-A
Matrix: Solid
Analysis Batch: 25318

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.0		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-25206/3-A
Matrix: Solid
Analysis Batch: 25318

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	257.2		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-14532-A-11-F MS
Matrix: Solid
Analysis Batch: 25318

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	6.23		249	248.4		mg/Kg		97	90 - 110		

Lab Sample ID: 880-14532-A-11-G MSD
Matrix: Solid
Analysis Batch: 25318

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	6.23		249	258.0		mg/Kg		101	90 - 110	4	20

QC Association Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 25088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14533-1	S-1 (0-3")	Total/NA	Solid	5035	
880-14533-2	S-1 (6")	Total/NA	Solid	5035	
880-14533-3	S-2 (0-3")	Total/NA	Solid	5035	
880-14533-4	S-2 (6")	Total/NA	Solid	5035	
880-14533-5	H-1 (0-3")	Total/NA	Solid	5035	
880-14533-6	H-2 (0-3")	Total/NA	Solid	5035	
880-14533-7	H-3 (0-3")	Total/NA	Solid	5035	
880-14533-8	H-4 (0-3")	Total/NA	Solid	5035	
MB 880-25088/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25088/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25088/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2270-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2270-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14533-1	S-1 (0-3")	Total/NA	Solid	8021B	25088
880-14533-2	S-1 (6")	Total/NA	Solid	8021B	25088
880-14533-3	S-2 (0-3")	Total/NA	Solid	8021B	25088
880-14533-4	S-2 (6")	Total/NA	Solid	8021B	25088
880-14533-5	H-1 (0-3")	Total/NA	Solid	8021B	25088
880-14533-6	H-2 (0-3")	Total/NA	Solid	8021B	25088
880-14533-7	H-3 (0-3")	Total/NA	Solid	8021B	25088
880-14533-8	H-4 (0-3")	Total/NA	Solid	8021B	25088
MB 880-25088/5-A	Method Blank	Total/NA	Solid	8021B	25088
LCS 880-25088/1-A	Lab Control Sample	Total/NA	Solid	8021B	25088
LCSD 880-25088/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25088
890-2270-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	25088
890-2270-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25088

Analysis Batch: 25435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14533-1	S-1 (0-3")	Total/NA	Solid	Total BTEX	
880-14533-2	S-1 (6")	Total/NA	Solid	Total BTEX	
880-14533-3	S-2 (0-3")	Total/NA	Solid	Total BTEX	
880-14533-4	S-2 (6")	Total/NA	Solid	Total BTEX	
880-14533-5	H-1 (0-3")	Total/NA	Solid	Total BTEX	
880-14533-6	H-2 (0-3")	Total/NA	Solid	Total BTEX	
880-14533-7	H-3 (0-3")	Total/NA	Solid	Total BTEX	
880-14533-8	H-4 (0-3")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 25066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14533-1	S-1 (0-3")	Total/NA	Solid	8015B NM	25129
880-14533-2	S-1 (6")	Total/NA	Solid	8015B NM	25129
880-14533-3	S-2 (0-3")	Total/NA	Solid	8015B NM	25129
880-14533-4	S-2 (6")	Total/NA	Solid	8015B NM	25129
880-14533-5	H-1 (0-3")	Total/NA	Solid	8015B NM	25129
880-14533-6	H-2 (0-3")	Total/NA	Solid	8015B NM	25129

QC Association Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 25066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14533-7	H-3 (0-3")	Total/NA	Solid	8015B NM	25129
880-14533-8	H-4 (0-3")	Total/NA	Solid	8015B NM	25129
MB 880-25129/1-A	Method Blank	Total/NA	Solid	8015B NM	25129
LCS 880-25129/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25129
LCSD 880-25129/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25129
880-14532-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	25129
880-14532-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25129

Prep Batch: 25129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14533-1	S-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-14533-2	S-1 (6")	Total/NA	Solid	8015NM Prep	
880-14533-3	S-2 (0-3")	Total/NA	Solid	8015NM Prep	
880-14533-4	S-2 (6")	Total/NA	Solid	8015NM Prep	
880-14533-5	H-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-14533-6	H-2 (0-3")	Total/NA	Solid	8015NM Prep	
880-14533-7	H-3 (0-3")	Total/NA	Solid	8015NM Prep	
880-14533-8	H-4 (0-3")	Total/NA	Solid	8015NM Prep	
MB 880-25129/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25129/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25129/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14532-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14532-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14533-1	S-1 (0-3")	Total/NA	Solid	8015 NM	
880-14533-2	S-1 (6")	Total/NA	Solid	8015 NM	
880-14533-3	S-2 (0-3")	Total/NA	Solid	8015 NM	
880-14533-4	S-2 (6")	Total/NA	Solid	8015 NM	
880-14533-5	H-1 (0-3")	Total/NA	Solid	8015 NM	
880-14533-6	H-2 (0-3")	Total/NA	Solid	8015 NM	
880-14533-7	H-3 (0-3")	Total/NA	Solid	8015 NM	
880-14533-8	H-4 (0-3")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14533-1	S-1 (0-3")	Soluble	Solid	DI Leach	
880-14533-2	S-1 (6")	Soluble	Solid	DI Leach	
880-14533-3	S-2 (0-3")	Soluble	Solid	DI Leach	
880-14533-4	S-2 (6")	Soluble	Solid	DI Leach	
880-14533-5	H-1 (0-3")	Soluble	Solid	DI Leach	
880-14533-6	H-2 (0-3")	Soluble	Solid	DI Leach	
880-14533-7	H-3 (0-3")	Soluble	Solid	DI Leach	
880-14533-8	H-4 (0-3")	Soluble	Solid	DI Leach	
MB 880-25206/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25206/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25206/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14532-A-11-F MS	Matrix Spike	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 25206 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14532-A-11-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14533-1	S-1 (0-3")	Soluble	Solid	300.0	25206
880-14533-2	S-1 (6")	Soluble	Solid	300.0	25206
880-14533-3	S-2 (0-3")	Soluble	Solid	300.0	25206
880-14533-4	S-2 (6")	Soluble	Solid	300.0	25206
880-14533-5	H-1 (0-3")	Soluble	Solid	300.0	25206
880-14533-6	H-2 (0-3")	Soluble	Solid	300.0	25206
880-14533-7	H-3 (0-3")	Soluble	Solid	300.0	25206
880-14533-8	H-4 (0-3")	Soluble	Solid	300.0	25206
MB 880-25206/1-A	Method Blank	Soluble	Solid	300.0	25206
LCS 880-25206/2-A	Lab Control Sample	Soluble	Solid	300.0	25206
LCSD 880-25206/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25206
880-14532-A-11-F MS	Matrix Spike	Soluble	Solid	300.0	25206
880-14532-A-11-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25206

Lab Chronicle

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (0-3")

Lab Sample ID: 880-14533-1
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 16:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25435	05/12/22 13:53	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25238	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		5			25066	05/10/22 06:07	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 10:27	CH	XEN MID

Client Sample ID: S-1 (6")

Lab Sample ID: 880-14533-2
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

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	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 16:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25435	05/12/22 13:53	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25238	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 03:41	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 10:36	CH	XEN MID

Client Sample ID: S-2 (0-3")

Lab Sample ID: 880-14533-3
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 17:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25435	05/12/22 13:53	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25238	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 04:01	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 10:45	CH	XEN MID

Client Sample ID: S-2 (6")

Lab Sample ID: 880-14533-4
Matrix: Solid
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 17:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25435	05/12/22 13:53	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (6")
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Lab Sample ID: 880-14533-4
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			25238	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 04:22	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 10:55	CH	XEN MID

Client Sample ID: H-1 (0-3")
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Lab Sample ID: 880-14533-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 17:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25435	05/12/22 13:53	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25238	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 04:43	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 03:25	CH	XEN MID

Client Sample ID: H-2 (0-3")
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Lab Sample ID: 880-14533-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 18:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25435	05/12/22 13:53	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25238	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 05:04	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 03:34	CH	XEN MID

Client Sample ID: H-3 (0-3")
Date Collected: 05/07/22 00:00
Date Received: 05/09/22 12:00

Lab Sample ID: 880-14533-7
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	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 18:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25435	05/12/22 13:53	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25238	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 05:25	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14533-7

Date Collected: 05/07/22 00:00
Matrix: Solid
Date Received: 05/09/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 03:43	CH	XEN MID

Client Sample ID: H-4 (0-3")

Lab Sample ID: 880-14533-8

Date Collected: 05/07/22 00:00
Matrix: Solid
Date Received: 05/09/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25088	05/09/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 19:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25435	05/12/22 13:53	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25238	05/10/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25129	05/09/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25066	05/10/22 05:46	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25206	05/09/22 16:43	SC	XEN MID
Soluble	Analysis	300.0		1			25318	05/12/22 03:53	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03.25.22)

Job ID: 880-14533-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14533-1	S-1 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14533-2	S-1 (6")	Solid	05/07/22 00:00	05/09/22 12:00
880-14533-3	S-2 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14533-4	S-2 (6")	Solid	05/07/22 00:00	05/09/22 12:00
880-14533-5	H-1 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14533-6	H-2 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14533-7	H-3 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00
880-14533-8	H-4 (0-3")	Solid	05/07/22 00:00	05/09/22 12:00

Work Order No: 14533

Page 1 of 1

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address.	310 W Wall St Ste 415	Address.	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	432-813-6823 Email		jacqui harris@conocophillips com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Jack Federal 004H (03 25 22)	Turn Around	
Project Number	1049	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date	72 Hour
Sampler's Name	CRM	TAT starts the day received by the lab, if received by 4 30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank	Yes (No)	Wet Ice (Yes) No
Received Intact.	(Yes) No	Thermometer ID	IR
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	-0.2
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	3.5
Total Containers		Corrected Temperature	3.3

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2S0_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	HOLD	Sample Comments
S-1 (0-3")	5/7/2022		X		G	1		X	X	X		
S-1 (6")	5/7/2022		X		G	1		X	X	X		
S-2 (0-3")	5/7/2022		X		G	1		X	X	X		
S-2 (6")	5/7/2022		X		G	1		X	X	X		
H-1 (0-3")	5/7/2022		X		G	1		X	X	X		
H-2 (0-3")	5/7/2022		X		G	1		X	X	X		
H-3 (0-3")	5/7/2022		X		G	1		X	X	X		
H-4 (0-3")	5/7/2022		X		G	1		X	X	X		

880-14533 Chain of Custody

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	5/9/22 1200		5/9/22 1200

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-14533-1
SDG Number: Eddy Co, NM

Login Number: 14533
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-15718-1
Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: Jack Federal 004H (03/25/22)

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

Attn: Conner Moehring

JKramer

Authorized for release by:
6/13/2022 11:23:37 AM

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

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Laboratory Job ID: 880-15718-1
SDG: Eddy Co, NM

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Job ID: 880-15718-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-15718-1

Receipt
The samples were received on 6/10/2022 8:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C

GC VOA
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: CS-2 (1') (880-15718-2), CS-3 (1') (880-15718-3), SW-1 (1') (880-15718-5), SW-2 (1') (880-15718-6), SW-3 (1') (880-15718-7) and SW-4 (1') (880-15718-8). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (1')

Lab Sample ID: 880-15718-1
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		06/10/22 08:05	06/10/22 12:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/10/22 08:05	06/10/22 12:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/10/22 08:05	06/10/22 12:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/10/22 08:05	06/10/22 12:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/10/22 08:05	06/10/22 12:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/10/22 08:05	06/10/22 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/10/22 08:05*	*06/10/22 12:11*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/10/22 08:05*	*06/10/22 12:11*	*1*

Method: 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			06/13/22 12:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 00:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 00:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/10/22 11:13*	*06/11/22 00:50*	*1*
o-Terphenyl	*83*		*70 - 130*	*06/10/22 11:13*	*06/11/22 00:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.7**		5.05		mg/Kg			06/11/22 03:25	1

Client Sample ID: CS-2 (1')

Lab Sample ID: 880-15718-2
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/10/22 08:05	06/10/22 12:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/10/22 08:05	06/10/22 12:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/10/22 08:05	06/10/22 12:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/10/22 08:05	06/10/22 12:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/10/22 08:05	06/10/22 12:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/10/22 08:05	06/10/22 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/10/22 08:05*	*06/10/22 12:31*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/10/22 08:05*	*06/10/22 12:31*	*1*

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Client Sample ID: CS-2 (1')

Lab Sample ID: 880-15718-2
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/13/22 12:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 01:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 01:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*63*	*S1-*	*70 - 130*	*06/10/22 11:13*	*06/11/22 01:12*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/10/22 11:13*	*06/11/22 01:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.2**		5.02		mg/Kg			06/11/22 03:34	1

Client Sample ID: CS-3 (1')

Lab Sample ID: 880-15718-3
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/10/22 08:05	06/10/22 12:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/10/22 08:05	06/10/22 12:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/10/22 08:05	06/10/22 12:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/10/22 08:05	06/10/22 12:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/10/22 08:05	06/10/22 12:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/10/22 08:05	06/10/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/10/22 08:05*	*06/10/22 12:52*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/10/22 08:05*	*06/10/22 12:52*	*1*

Method: 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			06/13/22 12:03	1

Method: 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			06/13/22 10:25	1

Method: 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		06/10/22 11:13	06/11/22 01:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 11:13	06/11/22 01:57	1

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Client Sample ID: CS-3 (1')

Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Lab Sample ID: 880-15718-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/22 11:13	06/11/22 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*52*	*S1-*	*70 - 130*	*06/10/22 11:13*	*06/11/22 01:57*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*06/10/22 11:13*	*06/11/22 01:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.8**		4.99		mg/Kg			06/11/22 03:43	1

Client Sample ID: CS-4 (1')

Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Lab Sample ID: 880-15718-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 13:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 13:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 13:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/10/22 08:05	06/10/22 13:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 13:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/10/22 08:05	06/10/22 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/10/22 08:05*	*06/10/22 13:12*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*06/10/22 08:05*	*06/10/22 13:12*	*1*

Method: 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			06/13/22 12:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 02:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 02:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/10/22 11:13*	*06/11/22 02:19*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/10/22 11:13*	*06/11/22 02:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.3**		4.96		mg/Kg			06/11/22 04:11	1

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Client Sample ID: SW-1 (1')

Lab Sample ID: 880-15718-5
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/10/22 08:05	06/10/22 13:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/10/22 08:05	06/10/22 13:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/10/22 08:05	06/10/22 13:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/10/22 08:05	06/10/22 13:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/10/22 08:05	06/10/22 13:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/10/22 08:05	06/10/22 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/10/22 08:05*	*06/10/22 13:33*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*06/10/22 08:05*	*06/10/22 13:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/13/22 12:03	1

Method: 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			06/13/22 10:25	1

Method: 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		06/10/22 11:13	06/11/22 02:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 11:13	06/11/22 02:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/22 11:13	06/11/22 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*56*	*S1-*	*70 - 130*	*06/10/22 11:13*	*06/11/22 02:41*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*06/10/22 11:13*	*06/11/22 02:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.9**		4.99		mg/Kg			06/11/22 04:20	1

Client Sample ID: SW-2 (1')

Lab Sample ID: 880-15718-6
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 13:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 13:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 13:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/10/22 08:05	06/10/22 13:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 13:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/10/22 08:05	06/10/22 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/10/22 08:05*	*06/10/22 13:53*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/10/22 08:05*	*06/10/22 13:53*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Client Sample ID: SW-2 (1')

Lab Sample ID: 880-15718-6
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Method: 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			06/13/22 12:03	1

Method: 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			06/13/22 10:25	1

Method: 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		06/10/22 11:13	06/11/22 03:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 11:13	06/11/22 03:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/22 11:13	06/11/22 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*54*	*S1-*	*70 - 130*	*06/10/22 11:13*	*06/11/22 03:04*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*06/10/22 11:13*	*06/11/22 03:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.4**		5.00		mg/Kg			06/11/22 04:48	1

Client Sample ID: SW-3 (1')

Lab Sample ID: 880-15718-7
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/10/22 08:05	06/10/22 14:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/10/22 08:05	06/10/22 14:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/10/22 08:05	06/10/22 14:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/10/22 08:05	06/10/22 14:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/10/22 08:05	06/10/22 14:14	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/10/22 08:05	06/10/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/10/22 08:05*	*06/10/22 14:14*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/10/22 08:05*	*06/10/22 14:14*	*1*

Method: 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			06/13/22 12:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 03:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 03:26	1

Client Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Client Sample ID: SW-3 (1')

Lab Sample ID: 880-15718-7
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*64*	*S1-*	*70 - 130*	*06/10/22 11:13*	*06/11/22 03:26*	*1*
o-Terphenyl	*74*		*70 - 130*	*06/10/22 11:13*	*06/11/22 03:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.8**		4.95		mg/Kg			06/11/22 04:57	1

Client Sample ID: SW-4 (1')

Lab Sample ID: 880-15718-8
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 14:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 14:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 14:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/10/22 08:05	06/10/22 14:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 14:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/10/22 08:05	06/10/22 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/10/22 08:05*	*06/10/22 14:34*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/10/22 08:05*	*06/10/22 14:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/13/22 12:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 03:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 03:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*57*	*S1-*	*70 - 130*	*06/10/22 11:13*	*06/11/22 03:48*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*06/10/22 11:13*	*06/11/22 03:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.5**		4.97		mg/Kg			06/11/22 05:06	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-15718-1	CS-1 (1')	109	87
880-15718-1 MS	CS-1 (1')	106	91
880-15718-1 MSD	CS-1 (1')	108	101
880-15718-2	CS-2 (1')	96	85
880-15718-3	CS-3 (1')	94	85
880-15718-4	CS-4 (1')	98	86
880-15718-5	SW-1 (1')	99	86
880-15718-6	SW-2 (1')	96	87
880-15718-7	SW-3 (1')	98	85
880-15718-8	SW-4 (1')	107	88
LCS 880-27174/1-A	Lab Control Sample	119	104
LCSD 880-27174/2-A	Lab Control Sample Dup	107	104
MB 880-27174/5-B	Method Blank	97	89

Surrogate Legend

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

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

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-15717-A-61-C MS	Matrix Spike	87	86
880-15717-A-61-D MSD	Matrix Spike Duplicate	87	88
880-15718-1	CS-1 (1')	73	83
880-15718-2	CS-2 (1')	63 S1-	73
880-15718-3	CS-3 (1')	52 S1-	61 S1-
880-15718-4	CS-4 (1')	72	81
880-15718-5	SW-1 (1')	56 S1-	65 S1-
880-15718-6	SW-2 (1')	54 S1-	62 S1-
880-15718-7	SW-3 (1')	64 S1-	74
880-15718-8	SW-4 (1')	57 S1-	65 S1-
LCS 880-27293/2-A	Lab Control Sample	100	108
LCSD 880-27293/3-A	Lab Control Sample Dup	100	111
MB 880-27293/1-A	Method Blank	93	102

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27174/5-B
Matrix: Solid
Analysis Batch: 27243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/10/22 08:05	06/10/22 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/10/22 08:05	06/10/22 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/10/22 08:05	06/10/22 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/10/22 08:05*	*06/10/22 11:49*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/10/22 08:05*	*06/10/22 11:49*	*1*

Lab Sample ID: LCS 880-27174/1-A
Matrix: Solid
Analysis Batch: 27243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27174

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07837		mg/Kg		78	70 - 130		
Toluene			0.100	0.09276		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.07869		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene			0.200	0.1594		mg/Kg		80	70 - 130		
o-Xylene			0.100	0.07550		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-27174/2-A
Matrix: Solid
Analysis Batch: 27243

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27174

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09025		mg/Kg		90	70 - 130	14	35
Toluene			0.100	0.08609		mg/Kg		86	70 - 130	7	35
Ethylbenzene			0.100	0.08999		mg/Kg		90	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.1801		mg/Kg		90	70 - 130	12	35
o-Xylene			0.100	0.09553		mg/Kg		96	70 - 130	23	35

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

Lab Sample ID: 880-15718-1 MS
Matrix: Solid
Analysis Batch: 27243

Client Sample ID: CS-1 (1')
Prep Type: Total/NA
Prep Batch: 27174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.100	0.06545	F1	mg/Kg		65	70 - 130		
Toluene	<0.00201	U	0.100	0.07231		mg/Kg		72	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-15718-1 MS
Matrix: Solid
Analysis Batch: 27243

Client Sample ID: CS-1 (1')
Prep Type: Total/NA
Prep Batch: 27174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.07926		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1623		mg/Kg		81	70 - 130
o-Xylene	<0.00201	U	0.100	0.08157		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 880-15718-1 MSD
Matrix: Solid
Analysis Batch: 27243

Client Sample ID: CS-1 (1')
Prep Type: Total/NA
Prep Batch: 27174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.100	0.08633		mg/Kg		86	70 - 130	28	35
Toluene	<0.00201	U	0.100	0.08411		mg/Kg		84	70 - 130	15	35
Ethylbenzene	<0.00201	U	0.100	0.08892		mg/Kg		89	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1804		mg/Kg		90	70 - 130	11	35
o-Xylene	<0.00201	U	0.100	0.08992		mg/Kg		90	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-27293/1-A
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27293

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		06/10/22 11:13	06/10/22 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/10/22 20:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/10/22 20:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/10/22 11:13*	*06/10/22 20:04*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/10/22 11:13*	*06/10/22 20:04*	*1*

Lab Sample ID: LCS 880-27293/2-A
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1158		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	1000	866.5		mg/Kg		87	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-27293/2-A
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27293

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-27293/3-A
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27293

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1167		mg/Kg		117	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	881.5		mg/Kg		88	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-15717-A-61-C MS
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1068		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	982.9		mg/Kg		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-15717-A-61-D MSD
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1067		mg/Kg		105	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1023		mg/Kg		102	70 - 130	4	20

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

QC Sample Results

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27300/1-A
Matrix: Solid
Analysis Batch: 27324

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			06/11/22 01:06	1

Lab Sample ID: LCS 880-27300/2-A
Matrix: Solid
Analysis Batch: 27324

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.6		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-27300/3-A
Matrix: Solid
Analysis Batch: 27324

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	259.3		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-15718-3 MS
Matrix: Solid
Analysis Batch: 27324

Client Sample ID: CS-3 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	12.8		250	248.4		mg/Kg		94	90 - 110		

Lab Sample ID: 880-15718-3 MSD
Matrix: Solid
Analysis Batch: 27324

Client Sample ID: CS-3 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.8		250	248.8		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 27174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15718-1	CS-1 (1')	Total/NA	Solid	5035	
880-15718-2	CS-2 (1')	Total/NA	Solid	5035	
880-15718-3	CS-3 (1')	Total/NA	Solid	5035	
880-15718-4	CS-4 (1')	Total/NA	Solid	5035	
880-15718-5	SW-1 (1')	Total/NA	Solid	5035	
880-15718-6	SW-2 (1')	Total/NA	Solid	5035	
880-15718-7	SW-3 (1')	Total/NA	Solid	5035	
880-15718-8	SW-4 (1')	Total/NA	Solid	5035	
MB 880-27174/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-27174/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27174/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15718-1 MS	CS-1 (1')	Total/NA	Solid	5035	
880-15718-1 MSD	CS-1 (1')	Total/NA	Solid	5035	

Analysis Batch: 27243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15718-1	CS-1 (1')	Total/NA	Solid	8021B	27174
880-15718-2	CS-2 (1')	Total/NA	Solid	8021B	27174
880-15718-3	CS-3 (1')	Total/NA	Solid	8021B	27174
880-15718-4	CS-4 (1')	Total/NA	Solid	8021B	27174
880-15718-5	SW-1 (1')	Total/NA	Solid	8021B	27174
880-15718-6	SW-2 (1')	Total/NA	Solid	8021B	27174
880-15718-7	SW-3 (1')	Total/NA	Solid	8021B	27174
880-15718-8	SW-4 (1')	Total/NA	Solid	8021B	27174
MB 880-27174/5-B	Method Blank	Total/NA	Solid	8021B	27174
LCS 880-27174/1-A	Lab Control Sample	Total/NA	Solid	8021B	27174
LCSD 880-27174/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27174
880-15718-1 MS	CS-1 (1')	Total/NA	Solid	8021B	27174
880-15718-1 MSD	CS-1 (1')	Total/NA	Solid	8021B	27174

Analysis Batch: 27423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15718-1	CS-1 (1')	Total/NA	Solid	Total BTEX	
880-15718-2	CS-2 (1')	Total/NA	Solid	Total BTEX	
880-15718-3	CS-3 (1')	Total/NA	Solid	Total BTEX	
880-15718-4	CS-4 (1')	Total/NA	Solid	Total BTEX	
880-15718-5	SW-1 (1')	Total/NA	Solid	Total BTEX	
880-15718-6	SW-2 (1')	Total/NA	Solid	Total BTEX	
880-15718-7	SW-3 (1')	Total/NA	Solid	Total BTEX	
880-15718-8	SW-4 (1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 27237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15718-1	CS-1 (1')	Total/NA	Solid	8015B NM	27293
880-15718-2	CS-2 (1')	Total/NA	Solid	8015B NM	27293
880-15718-3	CS-3 (1')	Total/NA	Solid	8015B NM	27293
880-15718-4	CS-4 (1')	Total/NA	Solid	8015B NM	27293
880-15718-5	SW-1 (1')	Total/NA	Solid	8015B NM	27293
880-15718-6	SW-2 (1')	Total/NA	Solid	8015B NM	27293

QC Association Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 27237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15718-7	SW-3 (1')	Total/NA	Solid	8015B NM	27293
880-15718-8	SW-4 (1')	Total/NA	Solid	8015B NM	27293
MB 880-27293/1-A	Method Blank	Total/NA	Solid	8015B NM	27293
LCS 880-27293/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27293
LCSD 880-27293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27293
880-15717-A-61-C MS	Matrix Spike	Total/NA	Solid	8015B NM	27293
880-15717-A-61-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27293

Prep Batch: 27293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15718-1	CS-1 (1')	Total/NA	Solid	8015NM Prep	
880-15718-2	CS-2 (1')	Total/NA	Solid	8015NM Prep	
880-15718-3	CS-3 (1')	Total/NA	Solid	8015NM Prep	
880-15718-4	CS-4 (1')	Total/NA	Solid	8015NM Prep	
880-15718-5	SW-1 (1')	Total/NA	Solid	8015NM Prep	
880-15718-6	SW-2 (1')	Total/NA	Solid	8015NM Prep	
880-15718-7	SW-3 (1')	Total/NA	Solid	8015NM Prep	
880-15718-8	SW-4 (1')	Total/NA	Solid	8015NM Prep	
MB 880-27293/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27293/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15717-A-61-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-15717-A-61-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15718-1	CS-1 (1')	Total/NA	Solid	8015 NM	
880-15718-2	CS-2 (1')	Total/NA	Solid	8015 NM	
880-15718-3	CS-3 (1')	Total/NA	Solid	8015 NM	
880-15718-4	CS-4 (1')	Total/NA	Solid	8015 NM	
880-15718-5	SW-1 (1')	Total/NA	Solid	8015 NM	
880-15718-6	SW-2 (1')	Total/NA	Solid	8015 NM	
880-15718-7	SW-3 (1')	Total/NA	Solid	8015 NM	
880-15718-8	SW-4 (1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 27300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15718-1	CS-1 (1')	Soluble	Solid	DI Leach	
880-15718-2	CS-2 (1')	Soluble	Solid	DI Leach	
880-15718-3	CS-3 (1')	Soluble	Solid	DI Leach	
880-15718-4	CS-4 (1')	Soluble	Solid	DI Leach	
880-15718-5	SW-1 (1')	Soluble	Solid	DI Leach	
880-15718-6	SW-2 (1')	Soluble	Solid	DI Leach	
880-15718-7	SW-3 (1')	Soluble	Solid	DI Leach	
880-15718-8	SW-4 (1')	Soluble	Solid	DI Leach	
MB 880-27300/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27300/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27300/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15718-3 MS	CS-3 (1')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 27300 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15718-3 MSD	CS-3 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 27324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15718-1	CS-1 (1')	Soluble	Solid	300.0	27300
880-15718-2	CS-2 (1')	Soluble	Solid	300.0	27300
880-15718-3	CS-3 (1')	Soluble	Solid	300.0	27300
880-15718-4	CS-4 (1')	Soluble	Solid	300.0	27300
880-15718-5	SW-1 (1')	Soluble	Solid	300.0	27300
880-15718-6	SW-2 (1')	Soluble	Solid	300.0	27300
880-15718-7	SW-3 (1')	Soluble	Solid	300.0	27300
880-15718-8	SW-4 (1')	Soluble	Solid	300.0	27300
MB 880-27300/1-A	Method Blank	Soluble	Solid	300.0	27300
LCS 880-27300/2-A	Lab Control Sample	Soluble	Solid	300.0	27300
LCSD 880-27300/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27300
880-15718-3 MS	CS-3 (1')	Soluble	Solid	300.0	27300
880-15718-3 MSD	CS-3 (1')	Soluble	Solid	300.0	27300

Lab Chronicle

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (1')

Lab Sample ID: 880-15718-1
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

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	27174	06/10/22 08:05	EL	XEN MID
Total/NA	Analysis	8021B		1			27243	06/10/22 12:11	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			27423	06/13/22 12:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27400	06/13/22 10:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27293	06/10/22 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/11/22 00:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27300	06/10/22 11:36	SC	XEN MID
Soluble	Analysis	300.0		1			27324	06/11/22 03:25	CH	XEN MID

Client Sample ID: CS-2 (1')

Lab Sample ID: 880-15718-2
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27174	06/10/22 08:05	EL	XEN MID
Total/NA	Analysis	8021B		1			27243	06/10/22 12:31	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			27423	06/13/22 12:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27400	06/13/22 10:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27293	06/10/22 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/11/22 01:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27300	06/10/22 11:36	SC	XEN MID
Soluble	Analysis	300.0		1			27324	06/11/22 03:34	CH	XEN MID

Client Sample ID: CS-3 (1')

Lab Sample ID: 880-15718-3
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

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	27174	06/10/22 08:05	EL	XEN MID
Total/NA	Analysis	8021B		1			27243	06/10/22 12:52	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			27423	06/13/22 12:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27400	06/13/22 10:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27293	06/10/22 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/11/22 01:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27300	06/10/22 11:36	SC	XEN MID
Soluble	Analysis	300.0		1			27324	06/11/22 03:43	CH	XEN MID

Client Sample ID: CS-4 (1')

Lab Sample ID: 880-15718-4
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

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	27174	06/10/22 08:05	EL	XEN MID
Total/NA	Analysis	8021B		1			27243	06/10/22 13:12	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			27423	06/13/22 12:03	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Client Sample ID: CS-4 (1')

Lab Sample ID: 880-15718-4
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

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			27400	06/13/22 10:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27293	06/10/22 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/11/22 02:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27300	06/10/22 11:36	SC	XEN MID
Soluble	Analysis	300.0		1			27324	06/11/22 04:11	CH	XEN MID

Client Sample ID: SW-1 (1')

Lab Sample ID: 880-15718-5
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27174	06/10/22 08:05	EL	XEN MID
Total/NA	Analysis	8021B		1			27243	06/10/22 13:33	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			27423	06/13/22 12:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27400	06/13/22 10:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27293	06/10/22 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/11/22 02:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27300	06/10/22 11:36	SC	XEN MID
Soluble	Analysis	300.0		1			27324	06/11/22 04:20	CH	XEN MID

Client Sample ID: SW-2 (1')

Lab Sample ID: 880-15718-6
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

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	27174	06/10/22 08:05	EL	XEN MID
Total/NA	Analysis	8021B		1			27243	06/10/22 13:53	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			27423	06/13/22 12:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27400	06/13/22 10:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27293	06/10/22 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/11/22 03:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27300	06/10/22 11:36	SC	XEN MID
Soluble	Analysis	300.0		1			27324	06/11/22 04:48	CH	XEN MID

Client Sample ID: SW-3 (1')

Lab Sample ID: 880-15718-7
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

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	27174	06/10/22 08:05	EL	XEN MID
Total/NA	Analysis	8021B		1			27243	06/10/22 14:14	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			27423	06/13/22 12:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27400	06/13/22 10:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27293	06/10/22 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/11/22 03:26	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Client Sample ID: SW-3 (1')

Lab Sample ID: 880-15718-7
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	27300	06/10/22 11:36	SC	XEN MID
Soluble	Analysis	300.0		1			27324	06/11/22 04:57	CH	XEN MID

Client Sample ID: SW-4 (1')

Lab Sample ID: 880-15718-8
Matrix: Solid
Date Collected: 06/09/22 00:00
Date Received: 06/10/22 08:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27174	06/10/22 08:05	EL	XEN MID
Total/NA	Analysis	8021B		1			27243	06/10/22 14:34	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			27423	06/13/22 12:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27400	06/13/22 10:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27293	06/10/22 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/11/22 03:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27300	06/10/22 11:36	SC	XEN MID
Soluble	Analysis	300.0		1			27324	06/11/22 05:06	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Jack Federal 004H (03/25/22)

Job ID: 880-15718-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15718-1	CS-1 (1')	Solid	06/09/22 00:00	06/10/22 08:04
880-15718-2	CS-2 (1')	Solid	06/09/22 00:00	06/10/22 08:04
880-15718-3	CS-3 (1')	Solid	06/09/22 00:00	06/10/22 08:04
880-15718-4	CS-4 (1')	Solid	06/09/22 00:00	06/10/22 08:04
880-15718-5	SW-1 (1')	Solid	06/09/22 00:00	06/10/22 08:04
880-15718-6	SW-2 (1')	Solid	06/09/22 00:00	06/10/22 08:04
880-15718-7	SW-3 (1')	Solid	06/09/22 00:00	06/10/22 08:04
880-15718-8	SW-4 (1')	Solid	06/09/22 00:00	06/10/22 08:04

Work Order No: 15718

Page 1 of 1

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	432-813-6823	Email	jacqui.harris@conocophillips.com

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ perfund ☐

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Jack Federal 004H (03/25/22)	Turn Around	☐ Routine ☑ Rush
Project Number	1049	Due Date	24 Hrs
Project Location	Eddy Co, NM	TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	CCM		
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals.	Yes No N/A	Correction Factor	-2
Sample Custody Seals	Yes No N/A	Temperature Reading	3
Total Containers.		Corrected Temperature	1

ANALYSIS REQUEST

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	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
CS-1 (1')	6/9/2022		X		C	1		X	X	X		
CS-2 (1')	6/9/2022		X		C	1		X	X	X		
CS-3 (1')	6/9/2022		X		C	1		X	X	X		
CS-4 (1')	6/9/2022		X		C	1		X	X	X		
SW-1 (1')	6/9/2022		X		C	1		X	X	X		
SW-2 (1')	6/9/2022		X		C	1		X	X	X		
SW-3 (1')	6/9/2022		X		C	1		X	X	X		
SW-4 (1')	6/9/2022		X		C	1		X	X	X		

880-15718 Chain of Custody

Comments:

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Conner Moehring	6/10/22 804	Jessica R	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-15718-1
SDG Number: Eddy Co, NM

Login Number: 15718
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: 7.6.22

email: _____ Telephone: _____

OCD Only

Received by: Robert Hamlet Date: 7/19/2022

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

Closure Approved by: Robert Hamlet Date: 7/19/2022

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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

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

CONDITIONS

Action 123331

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 123331
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2209836962 JACK FEDERAL 004H, thank you. This closure is approved.	7/19/2022