



## SITE INFORMATION

---

**Closure Report**  
**Potato Baby 902H (08.08.24)**  
**Eddy County, New Mexico**  
**Unit H Sec 34 T26S R28E**  
**nAPP2433733388**  
**32.000730°, -104.069372°**

**Produced Water Release**  
**Point of Release: Equipment Corrosion**  
**Release Date: 08.08.2024**  
**Volume Released: 8.0 Barrels of Produced Water**  
**Volume Recovered: 0.0 Barrels of Produced Water**

**CARMONA RESOURCES**



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

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

## TABLE OF CONTENTS

---

### 1.0 SITE INFORMATION AND BACKGROUND

### 2.0 SITE CHARACTERIZATION AND GROUNDWATER

### 3.0 NMAC REGULATORY CRITERIA

### 4.0 SITE ASSESSMENT ACTIVITIES

### 5.0 REMEDIATION ACTIVITIES

### 6.0 CONCLUSIONS

## FIGURES

FIGURE 1	OVERVIEW	FIGURE 2	TOPOGRAPHIC
FIGURE 3	SAMPLE LOCATION	FIGURE 4	EXCAVATION

## APPENDICES

APPENDIX A	TABLES
APPENDIX B	PHOTOS
APPENDIX C	N.O.R. AND FINAL C-141/NMOCD CORRESPONDENCE
APPENDIX D	SITE CHARACTERIZATION AND GROUNDWATER
APPENDIX E	LABORATORY REPORTS

December 17, 2024

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

**Re: Closure Report**  
**Potato Baby 902H (08.08.24)**  
**Concho Operating, LLC**  
**Incident ID: nAPP2433733388**  
**Site Location: Unit H, S34, T26S, R28E**  
**(Lat 32.000730°, Long -104.069372°)**  
**Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Potato Baby 902H (08.08.24). The site is located at 32.000730°, -104.069372° within Unit H, S34, T26S, R28E, in Eddy County, New Mexico (Figures 1 and 2).

### **1.0 Site Information and Background**

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on August 8, 2024, due to equipment corrosion. This released eight (8.0) barrels of produced water mix, and zero (0) barrels of produced water mix were recovered. Refer to Figure 3. The Notice of Release 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 within a 0.50-mile radius of the location exists. The nearest identified well is located approximately 1.36 miles North of the site in S27, T26S, R28E and was drilled in 2017. The well has a reported depth to groundwater of 145' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

### **3.0 NMAC Regulatory Criteria**

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria was 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 September 9, 2024, Carmona Resources, LLC performed an initial assessment to evaluate soil impacts stemming from the release. A total of one (1) sample point (S-1) and three (3) horizontal sample points (H-1 through H-3) were installed to total depths ranging from surface to 0 – 0.5' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for analytical results.

##### **5.0 Remediation Activities**

Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD web portal on December 2, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the sampling notification. The excavation was extended to remove the horizontal samples that showed impact, and new horizontal samples were collected to ensure the removal of all impacted material. A total of five (5) confirmation floor samples were collected (CS-1 through CS-5), four (4) sidewall samples (SW-1 through SW-4), and three (3) horizontal samples were collected every 200 square feet to ensure the proper removal of the contaminated material. 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. The analytical results are in Table 2.

Once the remediation activities were completed, the excavated area was backfilled with clean material to surface grade. The backfill sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix E.

Approximately 120 cubic yards of material were excavated and transported offsite for proper disposal.

##### **6.0 Conclusions**

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

Sincerely,

**Carmona Resources, LLC**

Conner Moehring  
Environmental Manager

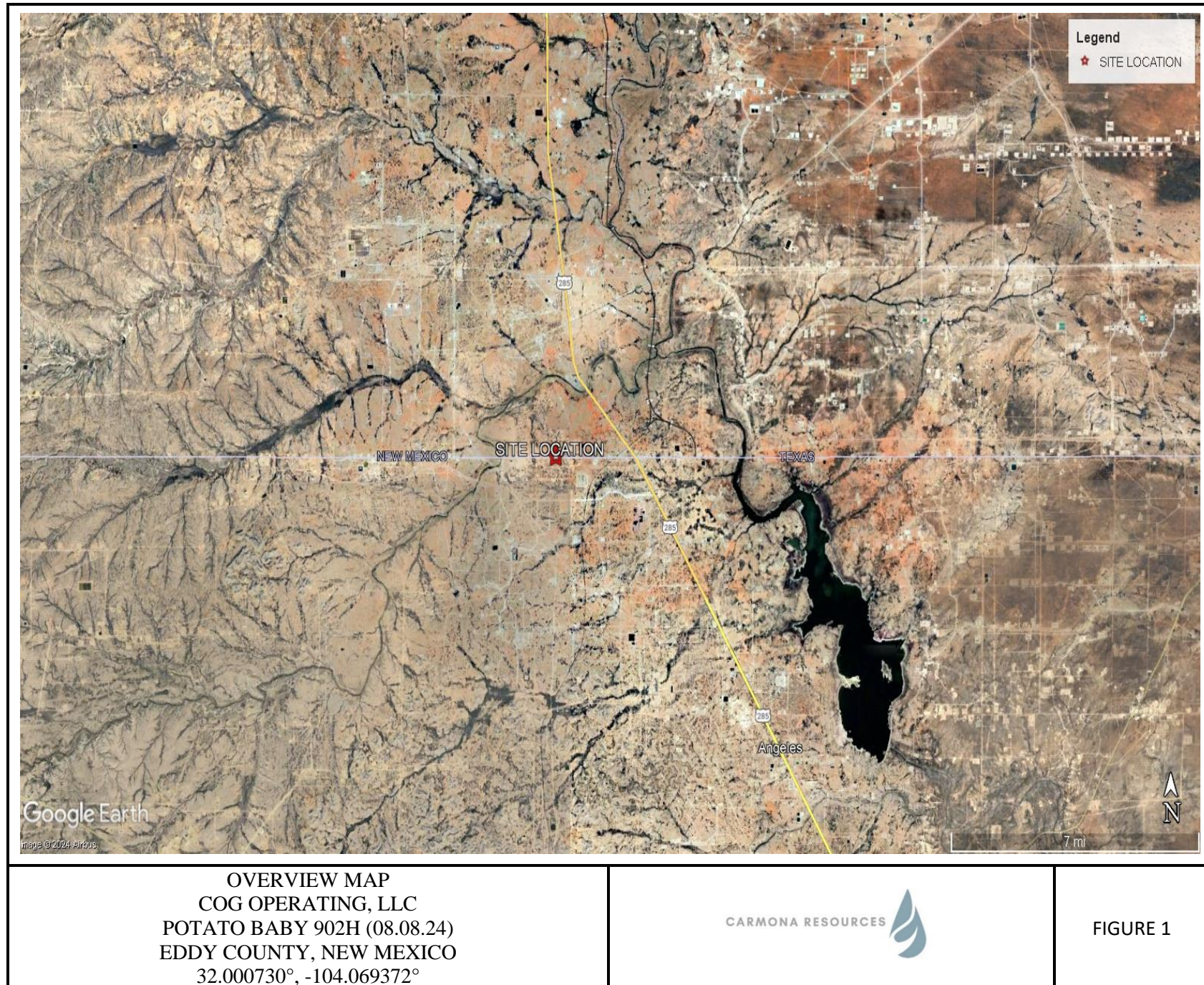
Devin Dominguez  
Sr. Project Manager



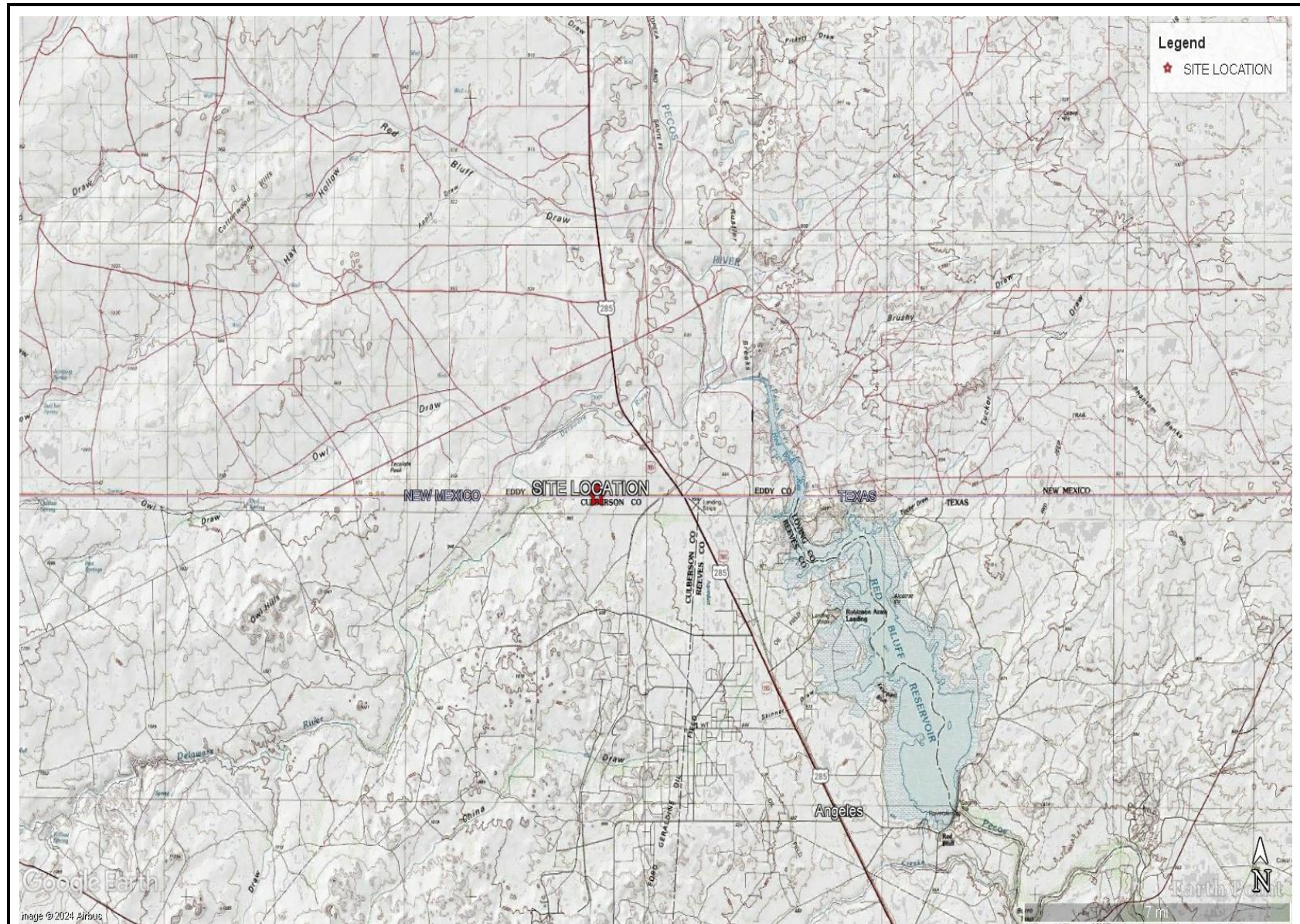
## FIGURES

CARMONA RESOURCES









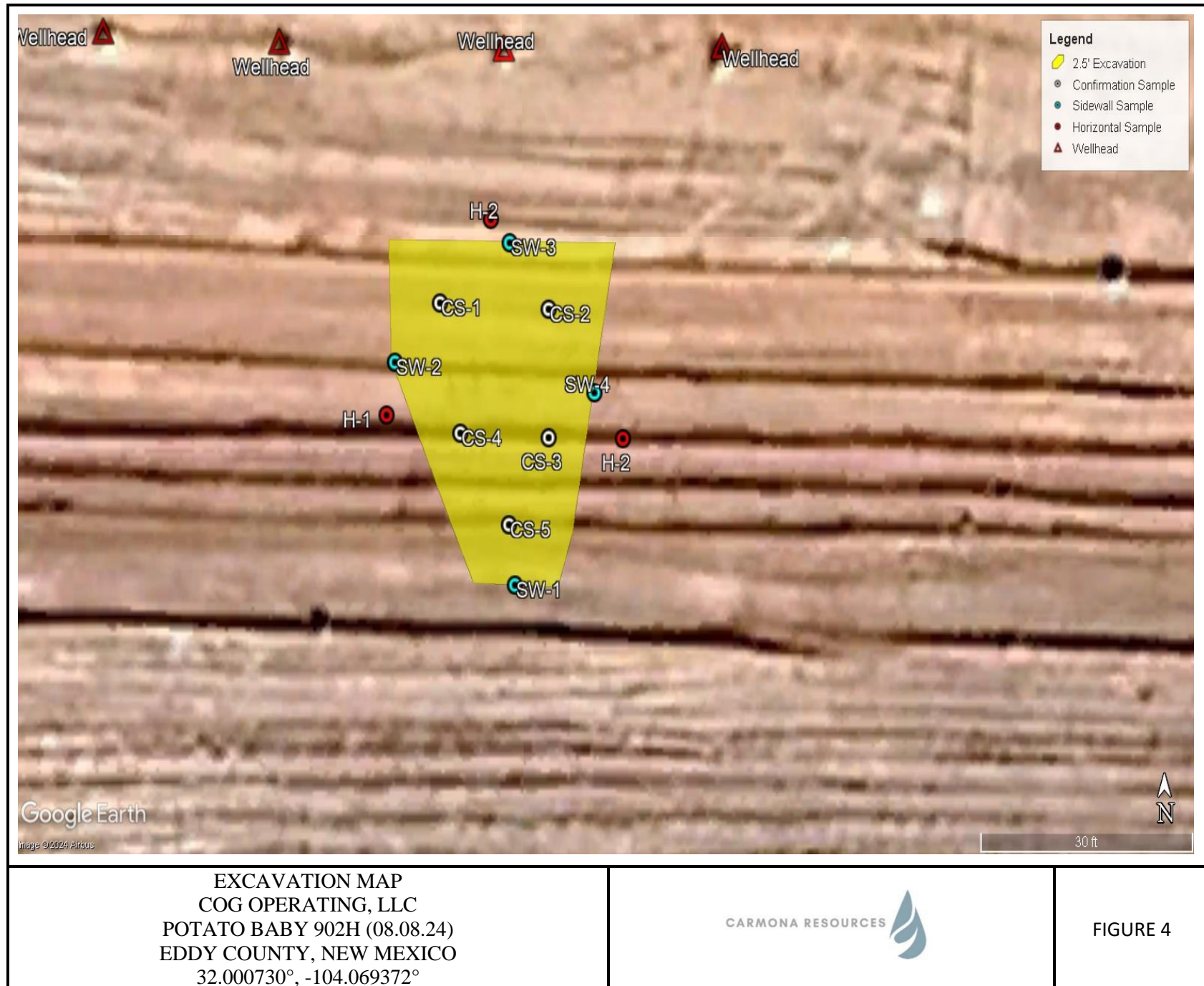
TOPOGRAPHIC MAP  
 COG OPERATING, LLC  
 POTATO BABY 902H (08.08.24)  
 EDDY COUNTY, NEW MEXICO  
 32.000730°, -104.069372°



FIGURE 2







## APPENDIX A

CARMONA RESOURCES



**Table 1**  
**Conoco Phillips**  
**Potato Baby 902H (08.08.24)**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>S-1</b>	9/9/2024	0-0.25'	<50.0	<b>663</b>	<50.0	<b>663</b>	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<b>1,030</b>
	"	0.5'	<49.8	<b>3,820</b>	<49.8	<b>3,820</b>	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<b>1,280</b>
<b>H-1</b>	9/9/2024	0-0.5'	<50.0	<b>116</b>	<50.0	<b>116</b>	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	443
	12/4/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	73.2
<b>H-2</b>	9/9/2024	0-0.5'	<49.9	<b>150</b>	<49.9	<b>150</b>	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	585
	12/4/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	107
<b>H-3</b>	9/9/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>744</b>
	12/4/2024	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	89.3
<b>Regulatory Criteria<sup>A</sup></b>							<b>100 mg/kg</b>	<b>10 mg/kg</b>			<b>50 mg/kg</b>	<b>600 mg/kg</b>

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

(H) Horizontal Point

Removed

**Table 2**  
**Conoco Phillips**  
**Potato Baby 902H (08.08.24)**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>CS-1</b>	12/4/2024	2.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	76.5
<b>CS-2</b>	12/4/2024	2.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	75.0
<b>CS-3</b>	12/4/2024	2.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	79.3
<b>CS-4</b>	12/4/2024	2.5'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	90.0
<b>CS-5</b>	12/4/2024	2.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	60.6
<b>SW-1</b>	12/4/2024	2.5'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	55.0
<b>SW-2</b>	12/4/2024	2.5'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	59.7
<b>SW-3</b>	12/4/2024	2.5'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	83.7
<b>SW-4</b>	12/4/2024	2.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	68.1
<b>BACKFILL</b>	12/4/2024	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	72.2
<b>Regulatory Criteria<sup>A</sup></b>							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) SideWall Sample



## APPENDIX B

CARMONA RESOURCES

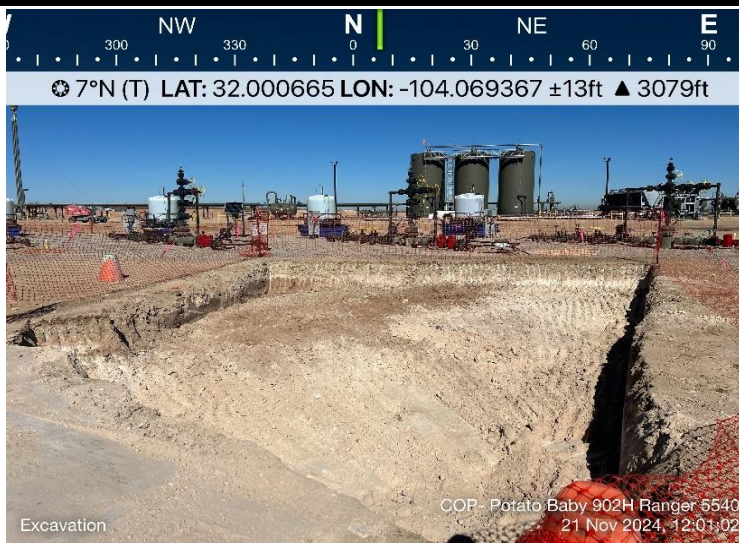


**PHOTOGRAPHIC LOG****COG Operating, LLC****Photograph No. 1****Facility:** Potato Baby 902 (08.08.24)**County:** Eddy County, New Mexico**Description:**

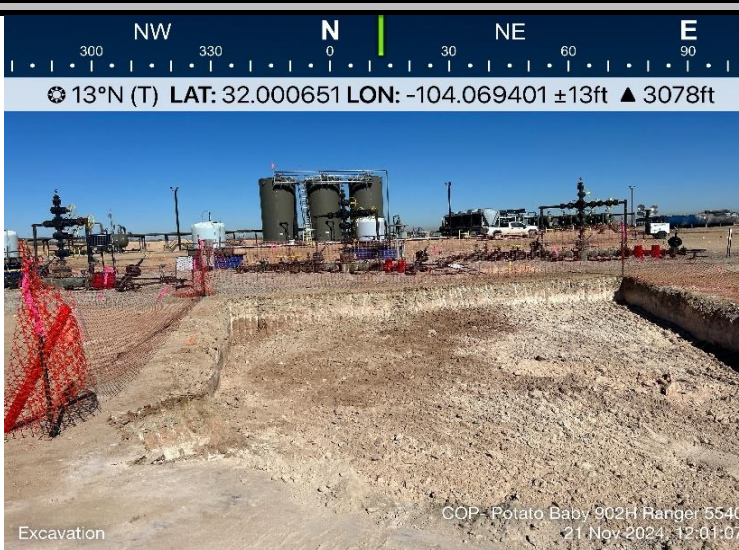
View Northwest, of the facility sign.

**Photograph No. 2****Facility:** Potato Baby 902 (08.08.24)**County:** Eddy County, New Mexico**Description:**

View North area of the confirmation samples (1-5).

**Photograph No. 3****Facility:** Potato Baby 902 (08.08.24)**County:** Eddy County, New Mexico**Description:**

View North area of the confirmation samples (1-5).



## APPENDIX C

CARMONA RESOURCES



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 407455

**QUESTIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 407455
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2433733388
Incident Name	NAPP2433733388 POTATO BABY 902H @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

**Location of Release Source***Please answer all the questions in this group.*

Site Name	Potato Baby 902H
Date Release Discovered	08/08/2024
Surface Owner	State

**Incident Details***Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release***Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Other (Specify)   Produced Water   Released: 8 BBL   Recovered: 0 BBL   Lost: 8 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 407455

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 407455
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 12/02/2024
--	---

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 407455

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 407455
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 407455

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 407455
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	12/2/2024

## Spill Calculation - On-Pad Surface Pool Spill

*Received by OCD: 1/8/2025 9:13:17 AM**Page 20 of 149*

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated volume of Spill (bbl.)
Rectangle A	20	15	0.0	300.00	0.04	0.00	0.04
Rectangle B	10	10	0.7	100.00	0.40	0.00	0.40
Rectangle C				0.00	0.00	0.00	0.00
Rectangle D				0.00	0.00	0.00	0.00
Rectangle E				0.00	0.00	0.00	0.00
Rectangle F				0.00	0.00	0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00
Rectangle J				0.00	0.00	0.00	0.00
Total Volume Released to Unlined Secondary Containment:							0.4349
Total Volume Released to Lined Secondary Containment:							0.4349

*Released to Imaging: 2/17/2025 2:14:25 PM*



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 407407

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 407407
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2433733388
Incident Name	NAPP2433733388 POTATO BABY 902H @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source	
Site Name	Potato Baby 902H
Date Release Discovered	08/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,105
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/04/2024
Time sampling will commence	03:00 PM
Please provide any information necessary for observers to contact samplers	Conner Moerhring (432) 813-6823
Please provide any information necessary for navigation to sampling site	Coordinates on C-141

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 407407

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 407407
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jacquih	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/2/2024

## APPENDIX D

CARMONA RESOURCES



## Nearest water well

COG Operating

### Legend

- 0.50 Mile Radius
- 1.36 Miles
- 2.20 Miles
- Groundwater Determination Bore
- NMSEO Water Well
- Potato Baby 902H (08.08.2024)

145' - Drilled 2017

55' - GWDB - 04.25.2022

Potato Baby 902H (08.08.2024)

Google Earth

2 mi





# High Karst

COG Operating

## Legend

-  High
-  Medium
-  Potato Baby 902H (08.08.2024)

Potato Baby 902H (08.08.2024)

Google Earth



2 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
<a href="#">C 04022 POD2</a>		CUB	ED	NE	NE	NE	27	26S	28E	588106.4	3543082.2		2187	250	145	105
<a href="#">C 02160 S7</a>		CUB	ED	SW	SW	NW	22	26S	28E	586638.0	3543998.0 *		3354	300	120	180
<a href="#">C 04466 POD1</a>		CUB	ED	SW	SW	NE	29	26S	28E	584327.2	3542357.4		3885	96	33	63

Average Depth to Water: 99 feet

Minimum Depth: 33 feet

Maximum Depth: 145 feet

Record Count: 3

UTM Filters (in meters):

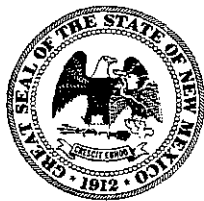
Easting: 587929.46

Northing: 3540902.05

Radius: 4000

\* UTM location was derived from PLSS - see Help

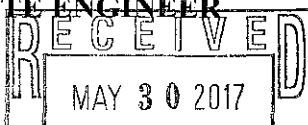
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE  
ROSWell, NEW MEXICO

2017 JUN -5 PM 1:46

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) <b>#2</b>		STATE ENGINEER OFFICE LAS CRUCES, NM		OSE FILE NUMBER(S) <b>C-4022</b>			
	WELL OWNER NAME(S) <b>Mosaic Potash - Carlsbad Inc.</b>				PHONE (OPTIONAL) <b>575-628-6279</b>			
	WELL OWNER MAILING ADDRESS <b>P.O. Box 71</b>				CITY STATE ZIP <b>Carlsbad NM 88221</b>			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE <b>32</b>	MINUTES <b>51</b>	SECONDS <b>13.6</b>	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE <b>104</b>	<b>4'</b>	<b>31.4"</b>	* DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE <b>US 285 - 6.5 miles N of state line</b>								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER <b>WD-1184</b>		NAME OF LICENSED DRILLER <b>Ronny Keith</b>		NAME OF WELL DRILLING COMPANY <b>Well West Texas Water Service</b>			
	DRILLING STARTED <b>5-8-17</b>	DRILLING ENDED <b>5-12-17</b>	DEPTH OF COMPLETED WELL (FT) <b>250</b>	BORE HOLE DEPTH (FT) <b>250</b>	DEPTH WATER FIRST ENCOUNTERED (FT) <b>145</b>			
	COMPLETED WELL IS: ARTESIAN DRY HOLE <u>SHALLOW (UNCONFINED)</u>		STATIC WATER LEVEL IN COMPLETED WELL (FT) <b>20</b>					
	DRILLING FLUID: AIR <u>MUD</u>		ADDITIVES - SPECIFY: <b>Baroid Quik-gel</b>					
	DRILLING METHOD: <u>ROTARY</u> HAMMER CABLE TOOL OTHER - SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0	15	24	20" J-55 steel	NA	19.125	.250	
	0	130	17.5	12.75" A-53	welded	12.25	.250	
	130	250	17.5	12.75 A-53	welded	12.25	.250	.125
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	0	15	24	Portland	15	tremmie		
	0	20	17.5	portland	16	tremmie		
	20	250	17.5	3/8" grade 5 washed gravel	180	poured		

FOR OSE INTERNAL USE

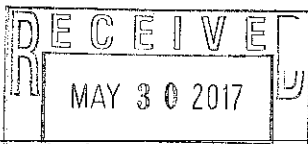
WR-20 WELL RECORD &amp; LOG (Version 10/29/15)

FILE NUMBER **C-4022**POD NUMBER **2**TRN NUMBER **603470**

LOCATION

**265.28E.27.222**

PAGE 1 OF 2



DEPTH (feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)		
					FROM	TO
0	20	20	Grey shale & gravel	Y	(N)	
20	30	10	Tan sand & gravel	Y	(N)	
30	40	10	Red clay	Y	(N)	
40	60	20	Tan sand & gravel	Y	(N)	
60	70	10	Tan sand	Y	(N)	
70	90	20	Yellow & red shale	Y	(N)	
90	100	10	Tan sandy clay	Y	(N)	
100	120	20	Tan sand & shale	Y	(N)	
120	130	10	Clay w/ tan sand streaks	Y	(N)	
130	140	10	Tan sand w/ gravel	Y	(N)	
140	150	10	Shale w/ small gravel & sand	Y	(N)	
150	160	10	Tan shale w/ sandy gravel	(Y)	N	20
160	180	20	Gravel	(Y)	N	20
180	190	10	Tan sand & gravel	(Y)	N	20
190	210	20	Yellow gypsum & limestone	Y	(N)	
210	220	10	Grey limestone	Y	(N)	
220	230	10	White Clay & limestone	Y	(N)	
230	250	20	Limestone & gypsum	Y	(N)	
				Y	N	
				Y	N	
				Y	N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:  
☐ PUMP ☒ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm) 60 0.0

WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:  
*Russell Southwell*

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

*Richard Ashley* *5-15-17*  
 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE

FOR USE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 10/29/2015)

FILE NUMBER

C-4022

POD NUMBER

2

TRN NUMBER

603470

LOCATION

26S.28E.27.222

PAGE 2 OF 2



CARMONA RESOURCES



Project Name : **COG - Copperhead Fee 31E CTB (01.14.22)**  
 Project No. : **1002**  
 Location : **Eddy County, New Mexico**  
 Coordinates : **32.002359, -104.031693**  
 Elevation : **2,930'**

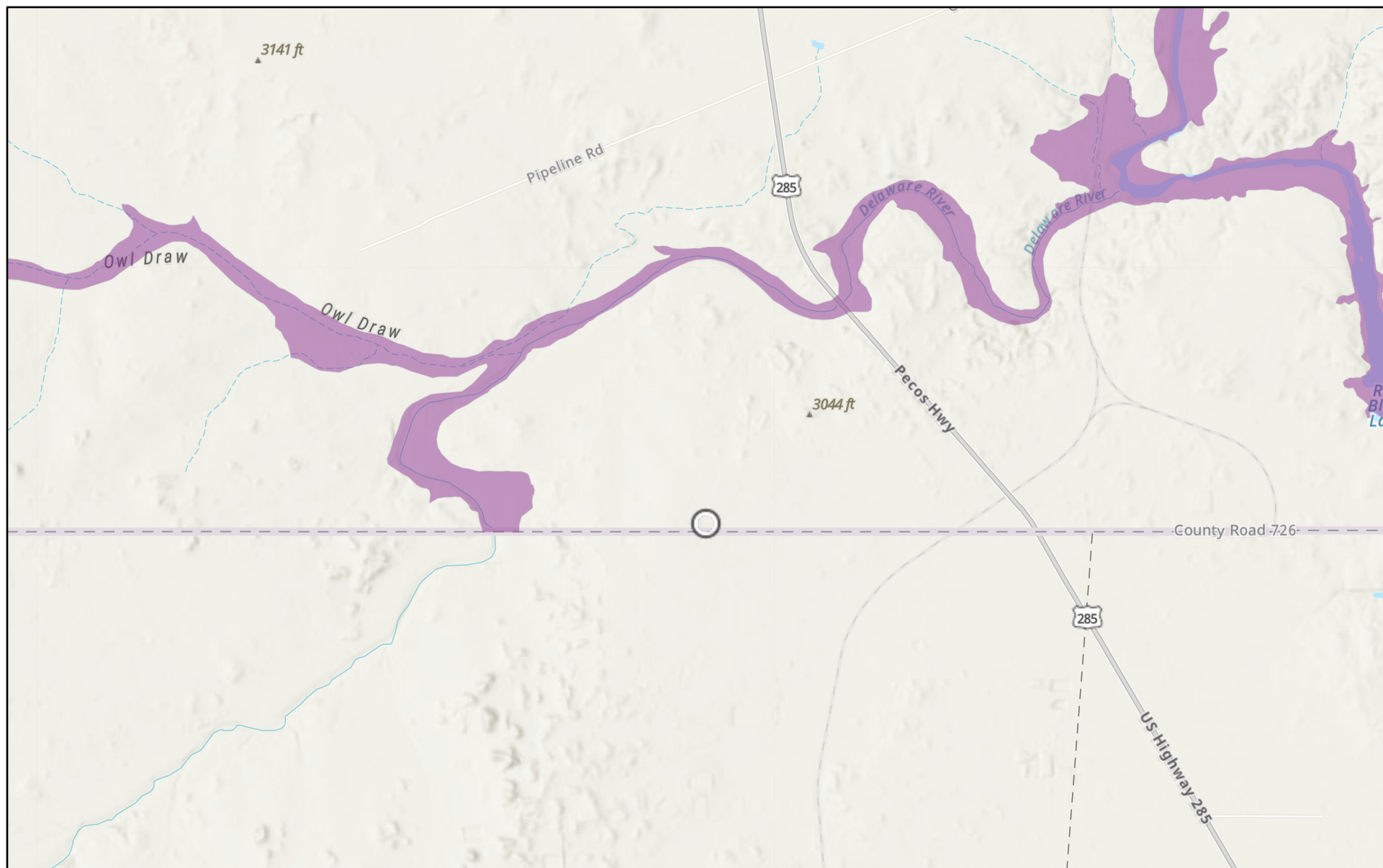
Date : **Monday, May 9, 2022**  
 Sampler : **Lane Scarborough**  
 Driller : **Scarborough Drilling**  
 Method : **Air Rotary**

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		50		(50') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)	
5		(5') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		55		(55') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)	
10		(10') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		60			
15		(12') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		65			
20		(15') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		70			
25		(20') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		75			
30		(25') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		80			
35		(30') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		85			
40		(35') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		90			
45		(40') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		95			
50		(45') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		105			

Comments : Boring terminated at 55' at 10:00 AM Central Time with no presence of groundwater or moisture.

Well gauged on 5/13/22 at 11:00 AM Central Time with no detection of groundwater or moisture

# Potato Baby 902H (08.08.2024)

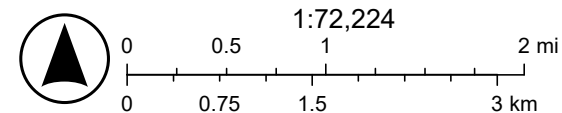


12/17/2024

USA Flood Hazard Areas

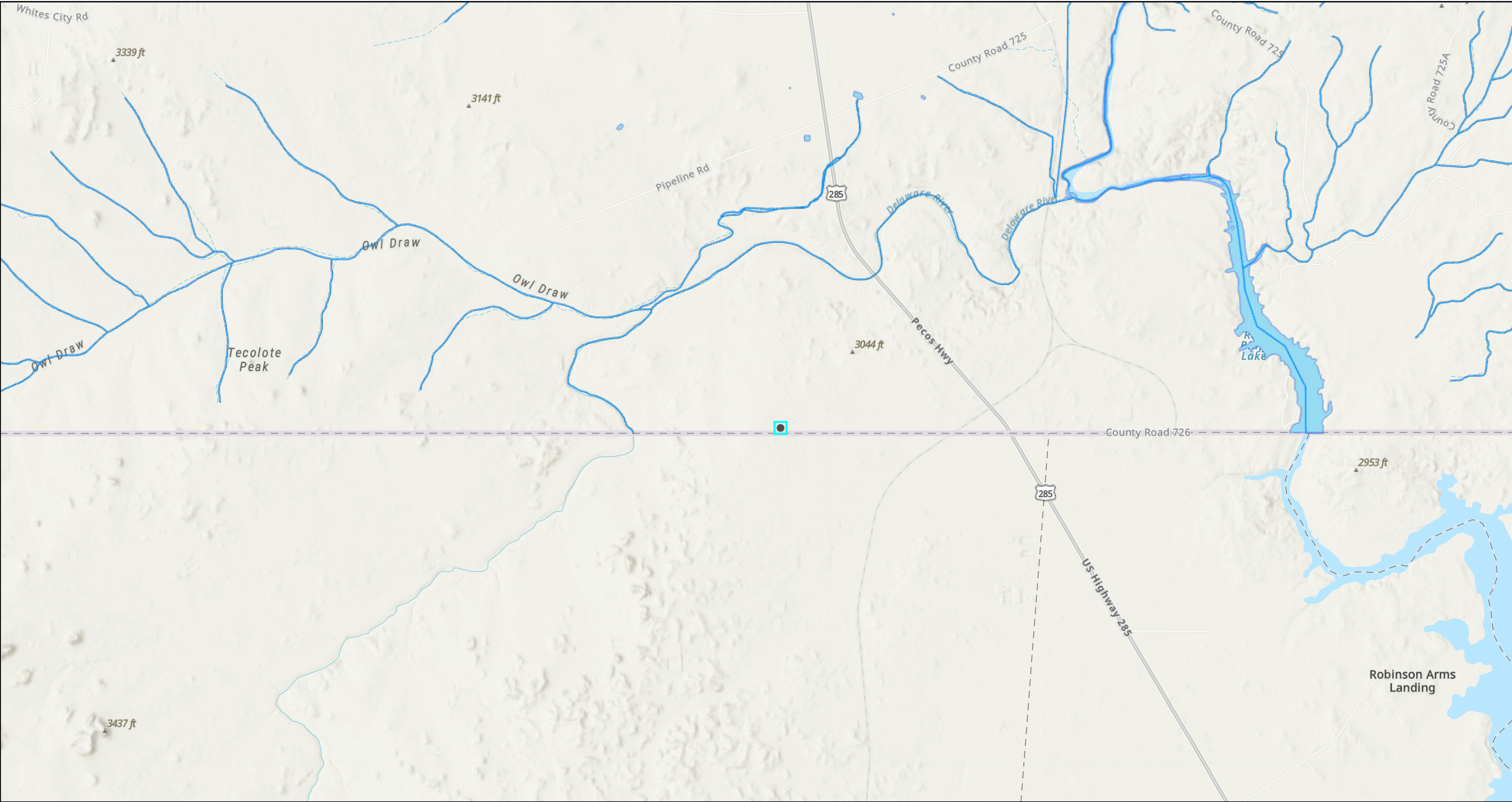
World Hillshade

1% Annual Chance Flood Hazard



Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri,

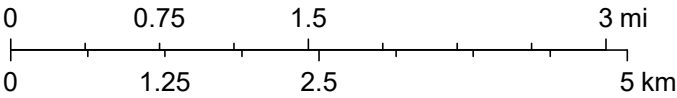
# Potato Baby 902H (08.08.2024)



12/17/2024, 4:43:54 AM

- OSW Water Bodys
- OSE Streams

1:72,224



Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA, NM OSE

## APPENDIX E

CARMONA RESOURCES





Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 9/12/2024 12:54:43 PM

## JOB DESCRIPTION

Potato Baby 902H Ranger 5540  
Eddy Co, NM

## JOB NUMBER

880-48247-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

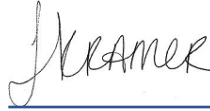
# Eurofins Midland

## Job Notes

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

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

## Authorization



Generated  
9/12/2024 12:54:43 PM

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



Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Laboratory Job ID: 880-48247-1  
SDG: Eddy Co, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	8
QC Sample Results . . . . .	9
QC Association Summary . . . . .	13
Lab Chronicle . . . . .	15
Certification Summary . . . . .	16
Method Summary . . . . .	17
Sample Summary . . . . .	18
Chain of Custody . . . . .	19
Receipt Checklists . . . . .	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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



## Case Narrative

Client: Carmona Resources  
Project: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1

**Job ID: 880-48247-1**

**Eurofins Midland**

### Job Narrative 880-48247-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### Receipt

The samples were received on 9/11/2024 9:09 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 -1.4°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-0.25') (880-48247-1) and S-1 (0.5') (880-48247-2).

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-90478 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-90478/2).

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-90502/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-48165-A-1-E MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-90502 and analytical batch 880-90478 was outside the control limits.

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

#### Diesel Range Organics

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-90416/2-A). 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

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-90508 and analytical batch 880-90534 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (0-0.25')

Lab Sample ID: 880-48247-1

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 14:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 14:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 14:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/11/24 10:26	09/11/24 14:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 14:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/11/24 10:26	09/11/24 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/11/24 10:26	09/11/24 14:53	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/11/24 10:26	09/11/24 14:53	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/11/24 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	663		50.0		mg/Kg			09/11/24 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/10/24 14:09	09/11/24 16:43	1
Diesel Range Organics (Over C10-C28)	663		50.0		mg/Kg		09/10/24 14:09	09/11/24 16:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/10/24 14:09	09/11/24 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	09/10/24 14:09	09/11/24 16:43	1
o-Terphenyl	111		70 - 130	09/10/24 14:09	09/11/24 16:43	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		24.9		mg/Kg			09/11/24 22:53	5

Client Sample ID: S-1 (0.5')

Lab Sample ID: 880-48247-2

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/11/24 10:26	09/11/24 15:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/11/24 10:26	09/11/24 15:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/11/24 10:26	09/11/24 15:20	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/11/24 10:26	09/11/24 15:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/11/24 10:26	09/11/24 15:20	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/11/24 10:26	09/11/24 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/11/24 10:26	09/11/24 15:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/11/24 10:26	09/11/24 15:20	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (0.5')

Lab Sample ID: 880-48247-2

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:09

## Method: TAL SOP 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			09/11/24 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3820		49.8		mg/Kg			09/11/24 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/10/24 14:09	09/11/24 17:00	1
Diesel Range Organics (Over C10-C28)	3820		49.8		mg/Kg		09/10/24 14:09	09/11/24 17:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/10/24 14:09	09/11/24 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				09/10/24 14:09	09/11/24 17:00	1
o-Terphenyl	115		70 - 130				09/10/24 14:09	09/11/24 17:00	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		24.8		mg/Kg			09/11/24 23:00	5

## Surrogate Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
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)
880-48165-A-1-D MS	Matrix Spike	103	103
880-48165-A-1-E MSD	Matrix Spike Duplicate	131 S1+	108
880-48247-1	S-1 (0-0.25')	113	104
880-48247-2	S-1 (0.5')	102	90
LCS 880-90502/1-A	Lab Control Sample	137 S1+	91
LCSD 880-90502/2-A	Lab Control Sample Dup	119	88
MB 880-90502/5-A	Method Blank	61 S1-	103
<b>Surrogate Legend</b>			
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)
880-48247-1	S-1 (0-0.25')	105	111
880-48247-2	S-1 (0.5')	113	115
890-7077-A-16-B MS	Matrix Spike	98	106
890-7077-A-16-C MSD	Matrix Spike Duplicate	94	103
LCS 880-90416/2-A	Lab Control Sample	115	131 S1+
LCSD 880-90416/3-A	Lab Control Sample Dup	114	130
MB 880-90416/1-A	Method Blank	120	124
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-90502/5-A

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 90502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/11/24 10:26	09/11/24 12:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130	09/11/24 10:26	09/11/24 12:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/11/24 10:26	09/11/24 12:39	1

Lab Sample ID: LCS 880-90502/1-A

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09641		mg/Kg		96	70 - 130
Toluene	0.100	0.1071		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2307		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1128		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-90502/2-A

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 90502

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09749		mg/Kg		97	70 - 130	1	35
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	3	35
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2150		mg/Kg		108	70 - 130	7	35
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-48165-A-1-D MS

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 90502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1158		mg/Kg		116	70 - 130
Toluene	<0.00200	U	0.100	0.07906		mg/Kg		79	70 - 130

Eurofins Midland



QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-48165-A-1-D MS  
Matrix: Solid  
Analysis Batch: 90478

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 90502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07448		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1529		mg/Kg		76	70 - 130
o-Xylene	<0.00200	U	0.100	0.07384		mg/Kg		74	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: 880-48165-A-1-E MSD  
Matrix: Solid  
Analysis Batch: 90478

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 90502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1016		mg/Kg		102	70 - 130	13	35
Toluene	<0.00200	U	0.100	0.09557		mg/Kg		96	70 - 130	19	35
Ethylbenzene	<0.00200	U	0.100	0.09884		mg/Kg		99	70 - 130	28	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2036		mg/Kg		102	70 - 130	28	35
o-Xylene	<0.00200	U	0.100	0.09936		mg/Kg		99	70 - 130	29	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	108		70 - 130								

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

Lab Sample ID: MB 880-90416/1-A  
Matrix: Solid  
Analysis Batch: 90474

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 90416

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		09/10/24 14:09	09/11/24 08:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/10/24 14:09	09/11/24 08:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/10/24 14:09	09/11/24 08:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	124		70 - 130						

Lab Sample ID: LCS 880-90416/2-A  
Matrix: Solid  
Analysis Batch: 90474

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 90416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1133		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1227		mg/Kg		123	70 - 130

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-90416/2-A

Matrix: Solid

Analysis Batch: 90474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90416

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: LCSD 880-90416/3-A

Matrix: Solid

Analysis Batch: 90474

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 90416

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1140		mg/Kg		114	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1225		mg/Kg		122	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: 890-7077-A-16-B MS

Matrix: Solid

Analysis Batch: 90474

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 90416

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	999	1045		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1023		mg/Kg		102	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 890-7077-A-16-C MSD

Matrix: Solid

Analysis Batch: 90474

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 90416

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	999	998.9		mg/Kg		100	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	987.0		mg/Kg		99	70 - 130	4	20

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

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-90508/1-A

Matrix: Solid

Analysis Batch: 90534

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			09/11/24 20:38	1

Lab Sample ID: LCS 880-90508/2-A

Matrix: Solid

Analysis Batch: 90534

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.0		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-90508/3-A

Matrix: Solid

Analysis Batch: 90534

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	234.0		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-48245-A-36-C MS

Matrix: Solid

Analysis Batch: 90534

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	2550	F1	1240	4276	F1	mg/Kg		139	90 - 110

Lab Sample ID: 880-48245-A-36-D MSD

Matrix: Solid

Analysis Batch: 90534

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	2550	F1	1240	4279	F1	mg/Kg		139	90 - 110	0	20

## QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

## GC VOA

## Analysis Batch: 90478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48247-1	S-1 (0-0.25')	Total/NA	Solid	8021B	90502
880-48247-2	S-1 (0.5')	Total/NA	Solid	8021B	90502
MB 880-90502/5-A	Method Blank	Total/NA	Solid	8021B	90502
LCS 880-90502/1-A	Lab Control Sample	Total/NA	Solid	8021B	90502
LCSD 880-90502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	90502
880-48165-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	90502
880-48165-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	90502

## Prep Batch: 90502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48247-1	S-1 (0-0.25')	Total/NA	Solid	5035	
880-48247-2	S-1 (0.5')	Total/NA	Solid	5035	
MB 880-90502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-90502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-90502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-48165-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-48165-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 90601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48247-1	S-1 (0-0.25')	Total/NA	Solid	Total BTEX	
880-48247-2	S-1 (0.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 90416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48247-1	S-1 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-48247-2	S-1 (0.5')	Total/NA	Solid	8015NM Prep	
MB 880-90416/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-90416/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-90416/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7077-A-16-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7077-A-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 90474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48247-1	S-1 (0-0.25')	Total/NA	Solid	8015B NM	90416
880-48247-2	S-1 (0.5')	Total/NA	Solid	8015B NM	90416
MB 880-90416/1-A	Method Blank	Total/NA	Solid	8015B NM	90416
LCS 880-90416/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	90416
LCSD 880-90416/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	90416
890-7077-A-16-B MS	Matrix Spike	Total/NA	Solid	8015B NM	90416
890-7077-A-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	90416

## Analysis Batch: 90599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48247-1	S-1 (0-0.25')	Total/NA	Solid	8015 NM	
880-48247-2	S-1 (0.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

HPLC/IC

Leach Batch: 90508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48247-1	S-1 (0-0.25')	Soluble	Solid	DI Leach	
880-48247-2	S-1 (0.5')	Soluble	Solid	DI Leach	
MB 880-90508/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-90508/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-90508/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48245-A-36-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-48245-A-36-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 90534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48247-1	S-1 (0-0.25')	Soluble	Solid	300.0	90508
880-48247-2	S-1 (0.5')	Soluble	Solid	300.0	90508
MB 880-90508/1-A	Method Blank	Soluble	Solid	300.0	90508
LCS 880-90508/2-A	Lab Control Sample	Soluble	Solid	300.0	90508
LCSD 880-90508/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	90508
880-48245-A-36-C MS	Matrix Spike	Soluble	Solid	300.0	90508
880-48245-A-36-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	90508



Lab Chronicle

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (0-0.25')

Lab Sample ID: 880-48247-1

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	90502	09/11/24 10:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90478	09/11/24 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90601	09/11/24 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			90599	09/11/24 16:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	90416	09/10/24 14:09	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90474	09/11/24 16:43	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	90508	09/11/24 10:51	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	90534	09/11/24 22:53	CH	EET MID

Client Sample ID: S-1 (0.5')

Lab Sample ID: 880-48247-2

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:09

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	90502	09/11/24 10:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90478	09/11/24 15:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90601	09/11/24 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			90599	09/11/24 17:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	90416	09/10/24 14:09	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90474	09/11/24 17:00	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	90508	09/11/24 10:51	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	90534	09/11/24 23:00	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48247-1  
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-48247-1	S-1 (0-0.25')	Solid	09/09/24 00:00	09/11/24 09:09
880-48247-2	S-1 (0.5')	Solid	09/09/24 00:00	09/11/24 09:09

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



## Chain of Custody

Page 1 of 1

[illegible]



## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-48247-1

SDG Number: Eddy Co, NM

Login Number: 48247

List Number: 1

Creator: Vasquez, Julisa

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	



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 9/12/2024 12:50:38 PM

## JOB DESCRIPTION

Potato Baby 902H Ranger 5540  
Eddy Co, NM

## JOB NUMBER

880-48248-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

# Eurofins Midland

## Job Notes

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

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

## Authorization



Generated  
9/12/2024 12:50:38 PM

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

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Laboratory Job ID: 880-48248-1  
SDG: Eddy Co, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	9
QC Sample Results . . . . .	10
QC Association Summary . . . . .	14
Lab Chronicle . . . . .	16
Certification Summary . . . . .	17
Method Summary . . . . .	18
Sample Summary . . . . .	19
Chain of Custody . . . . .	20
Receipt Checklists . . . . .	21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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



## Case Narrative

Client: Carmona Resources  
Project: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1

**Job ID: 880-48248-1**

**Eurofins Midland**

### Job Narrative 880-48248-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### Receipt

The samples were received on 9/11/2024 9:50 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 -1.4°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-48248-1), H-2 (0-0.5') (880-48248-2) and H-3 (0-0.5') (880-48248-3).

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-90478 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-90478/2).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-90502 and analytical batch 880-90478 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-90502/1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-48165-A-1-E MSD). 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.

#### Diesel Range Organics

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: H-2 (0-0.5') (880-48248-2). Percent recoveries are based on the amount spiked.

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

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-90508 and analytical batch 880-90534 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-48248-1

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 13:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 13:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 13:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/11/24 10:26	09/11/24 13:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 13:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/11/24 10:26	09/11/24 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/11/24 10:26	09/11/24 13:32	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/11/24 10:26	09/11/24 13:32	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/11/24 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	116		50.0		mg/Kg			09/11/24 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/11/24 10:57	09/11/24 18:25	1
Diesel Range Organics (Over C10-C28)	116		50.0		mg/Kg		09/11/24 10:57	09/11/24 18:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/11/24 10:57	09/11/24 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	09/11/24 10:57	09/11/24 18:25	1
o-Terphenyl	97		70 - 130	09/11/24 10:57	09/11/24 18:25	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	443		24.9		mg/Kg			09/11/24 23:19	5

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

Lab Sample ID: 880-48248-2

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 13:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 13:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 13:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/11/24 10:26	09/11/24 13:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 13:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/11/24 10:26	09/11/24 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/11/24 10:26	09/11/24 13:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/11/24 10:26	09/11/24 13:59	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-48248-2

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:50

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/11/24 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	150		49.9		mg/Kg			09/11/24 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/11/24 10:57	09/11/24 18:39	1
Diesel Range Organics (Over C10-C28)	150		49.9		mg/Kg		09/11/24 10:57	09/11/24 18:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/11/24 10:57	09/11/24 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				09/11/24 10:57	09/11/24 18:39	1
o-Terphenyl	146	S1+	70 - 130				09/11/24 10:57	09/11/24 18:39	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	585		4.95		mg/Kg			09/11/24 23:25	1

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

Lab Sample ID: 880-48248-3

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/11/24 10:26	09/11/24 14:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/11/24 10:26	09/11/24 14:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/11/24 10:26	09/11/24 14:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/11/24 10:26	09/11/24 14:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/11/24 10:26	09/11/24 14:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/11/24 10:26	09/11/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				09/11/24 10:26	09/11/24 14:26	1
1,4-Difluorobenzene (Surr)	92		70 - 130				09/11/24 10:26	09/11/24 14:26	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/11/24 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/11/24 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/11/24 10:57	09/11/24 18:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/11/24 10:57	09/11/24 18:54	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

Client Sample ID: H-3 (0-0.5')  
Date Collected: 09/09/24 00:00  
Date Received: 09/11/24 09:50

Lab Sample ID: 880-48248-3  
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/11/24 10:57	09/11/24 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				09/11/24 10:57	09/11/24 18:54	1
o-Terphenyl	109		70 - 130				09/11/24 10:57	09/11/24 18:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	744		5.03		mg/Kg			09/11/24 23:32	1

## Surrogate Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
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)
880-48165-A-1-D MS	Matrix Spike	103	103
880-48165-A-1-E MSD	Matrix Spike Duplicate	131 S1+	108
880-48248-1	H-1 (0-0.5')	106	93
880-48248-2	H-2 (0-0.5')	109	96
880-48248-3	H-3 (0-0.5')	105	92
LCS 880-90502/1-A	Lab Control Sample	137 S1+	91
LCSD 880-90502/2-A	Lab Control Sample Dup	119	88
MB 880-90502/5-A	Method Blank	61 S1-	103

## 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)
880-48246-A-1-C MS	Matrix Spike	110	101
880-48246-A-1-D MSD	Matrix Spike Duplicate	99	92
880-48248-1	H-1 (0-0.5')	95	97
880-48248-2	H-2 (0-0.5')	144 S1+	146 S1+
880-48248-3	H-3 (0-0.5')	108	109
LCS 880-90510/2-A	Lab Control Sample	106	101
LCSD 880-90510/3-A	Lab Control Sample Dup	106	100
MB 880-90510/1-A	Method Blank	76	80

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl



## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-90502/5-A

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 90502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/11/24 10:26	09/11/24 12:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130	09/11/24 10:26	09/11/24 12:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/11/24 10:26	09/11/24 12:39	1

Lab Sample ID: LCS 880-90502/1-A

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09641		mg/Kg		96	70 - 130
Toluene	0.100	0.1071		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2307		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1128		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-90502/2-A

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 90502

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09749		mg/Kg		97	70 - 130	1	35
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	3	35
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2150		mg/Kg		108	70 - 130	7	35
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-48165-A-1-D MS

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 90502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1158		mg/Kg		116	70 - 130
Toluene	<0.00200	U	0.100	0.07906		mg/Kg		79	70 - 130

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-48165-A-1-D MS

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 90502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07448		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1529		mg/Kg		76	70 - 130
o-Xylene	<0.00200	U	0.100	0.07384		mg/Kg		74	70 - 130

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

Lab Sample ID: 880-48165-A-1-E MSD

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 90502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1016		mg/Kg		102	70 - 130	13	35
Toluene	<0.00200	U	0.100	0.09557		mg/Kg		96	70 - 130	19	35
Ethylbenzene	<0.00200	U	0.100	0.09884		mg/Kg		99	70 - 130	28	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2036		mg/Kg		102	70 - 130	28	35
o-Xylene	<0.00200	U	0.100	0.09936		mg/Kg		99	70 - 130	29	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-90510/1-A

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 90510

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		09/11/24 08:00	09/11/24 08:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/11/24 08:00	09/11/24 08:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/11/24 08:00	09/11/24 08:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	09/11/24 08:00	09/11/24 08:41	1
o-Terphenyl	80		70 - 130	09/11/24 08:00	09/11/24 08:41	1

Lab Sample ID: LCS 880-90510/2-A

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	860.4		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	801.6		mg/Kg		80	70 - 130

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-90510/2-A

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90510

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-90510/3-A

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 90510

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	874.9		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	812.7		mg/Kg		81	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-48246-A-1-C MS

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 90510

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	1113		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	129		996	1200		mg/Kg		108	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 880-48246-A-1-D MSD

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 90510

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	974.4		mg/Kg		98	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	129		996	1110		mg/Kg		98	70 - 130	8	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	92		70 - 130

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-90508/1-A

Matrix: Solid

Analysis Batch: 90534

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			09/11/24 20:38	1

Lab Sample ID: LCS 880-90508/2-A

Matrix: Solid

Analysis Batch: 90534

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.0		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-90508/3-A

Matrix: Solid

Analysis Batch: 90534

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	234.0		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-48245-A-36-C MS

Matrix: Solid

Analysis Batch: 90534

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	2550	F1	1240	4276	F1	mg/Kg		139	90 - 110

Lab Sample ID: 880-48245-A-36-D MSD

Matrix: Solid

Analysis Batch: 90534

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	2550	F1	1240	4279	F1	mg/Kg		139	90 - 110	0	20

Lab Sample ID: 880-48245-A-46-C MS

Matrix: Solid

Analysis Batch: 90534

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	35.7		253	276.7		mg/Kg		95	90 - 110

Lab Sample ID: 880-48245-A-46-D MSD

Matrix: Solid

Analysis Batch: 90534

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	35.7		253	278.0		mg/Kg		96	90 - 110	0	20

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

## GC VOA

## Analysis Batch: 90478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48248-1	H-1 (0-0.5')	Total/NA	Solid	8021B	90502
880-48248-2	H-2 (0-0.5')	Total/NA	Solid	8021B	90502
880-48248-3	H-3 (0-0.5')	Total/NA	Solid	8021B	90502
MB 880-90502/5-A	Method Blank	Total/NA	Solid	8021B	90502
LCS 880-90502/1-A	Lab Control Sample	Total/NA	Solid	8021B	90502
LCSD 880-90502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	90502
880-48165-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	90502
880-48165-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	90502

## Prep Batch: 90502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48248-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-48248-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-48248-3	H-3 (0-0.5')	Total/NA	Solid	5035	
MB 880-90502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-90502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-90502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-48165-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-48165-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 90538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48248-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-48248-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-48248-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 90510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48248-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-48248-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-48248-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-90510/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-90510/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-90510/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-48246-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-48246-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 90528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48248-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	90510
880-48248-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	90510
880-48248-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	90510
MB 880-90510/1-A	Method Blank	Total/NA	Solid	8015B NM	90510
LCS 880-90510/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	90510
LCSD 880-90510/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	90510
880-48246-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	90510
880-48246-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	90510

Eurofins Midland



QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

GC Semi VOA

Analysis Batch: 90593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48248-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-48248-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-48248-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 90508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48248-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-48248-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-48248-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-90508/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-90508/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-90508/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48245-A-36-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-48245-A-36-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-48245-A-46-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-48245-A-46-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 90534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48248-1	H-1 (0-0.5')	Soluble	Solid	300.0	90508
880-48248-2	H-2 (0-0.5')	Soluble	Solid	300.0	90508
880-48248-3	H-3 (0-0.5')	Soluble	Solid	300.0	90508
MB 880-90508/1-A	Method Blank	Soluble	Solid	300.0	90508
LCS 880-90508/2-A	Lab Control Sample	Soluble	Solid	300.0	90508
LCSD 880-90508/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	90508
880-48245-A-36-C MS	Matrix Spike	Soluble	Solid	300.0	90508
880-48245-A-36-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	90508
880-48245-A-46-C MS	Matrix Spike	Soluble	Solid	300.0	90508
880-48245-A-46-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	90508

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-48248-1

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	90502	09/11/24 10:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90478	09/11/24 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90538	09/11/24 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			90593	09/11/24 18:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	90510	09/11/24 10:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90528	09/11/24 18:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	90508	09/11/24 10:51	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	90534	09/11/24 23:19	CH	EET MID

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

Lab Sample ID: 880-48248-2

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:50

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	90502	09/11/24 10:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90478	09/11/24 13:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90538	09/11/24 13:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			90593	09/11/24 18:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	90510	09/11/24 10:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90528	09/11/24 18:39	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	90508	09/11/24 10:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90534	09/11/24 23:25	CH	EET MID

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

Lab Sample ID: 880-48248-3

Date Collected: 09/09/24 00:00

Matrix: Solid

Date Received: 09/11/24 09:50

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	90502	09/11/24 10:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90478	09/11/24 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90538	09/11/24 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			90593	09/11/24 18:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	90510	09/11/24 10:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90528	09/11/24 18:54	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	90508	09/11/24 10:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90534	09/11/24 23:32	CH	EET MID

## Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-48248-1  
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-48248-1	H-1 (0-0.5')	Solid	09/09/24 00:00	09/11/24 09:50
880-48248-2	H-2 (0-0.5')	Solid	09/09/24 00:00	09/11/24 09:50
880-48248-3	H-3 (0-0.5')	Solid	09/09/24 00:00	09/11/24 09:50

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Chain of Custody



380-48248 Chain of Custody

Page 1 of 1

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

Project Name:		Potato Baby 902H Ranger 5540		Turn Around		ANALYSIS REC'D	
Project Number:		2502		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location		Eddy Co, NM		Due Date:		72 Hrs	
Sampler's Name:		CMM					
PO #:							
<b>SAMPLE RECEIPT</b>							
Received Intact:		Temp Blank:		Yes No			
		Yes No		Thermometer ID:			
Cooler Custody Seals:		Yes No		Correction Factor:			
Sample Custody Seals:		Yes No		Temperature Reading:			
Total Containers:				Corrected Temperature:			
				Parameters			
				BTX 8021B			
				8015M (GRO + DRO + MRO)			
				Chloride 300			

[illegible]

Comments: Email to Mike Carmona / [Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)

**Work Order Comments**



**Program:** ☐UST/☐PST ☐PRP ☐brownfields ☐RRC ☐superfund ☐

**State of Project:**

**Reporting:** ☐Level II ☐Level III ☐PST/UST ☐RRP ☐Level IV ☐

**Deliverables:** ☐EDD ☐ADAPT ☐Other: \_\_\_\_\_

[illegible]

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	9/11/24 9:47		9/11/24 9:50

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-48248-1

SDG Number: Eddy Co, NM

Login Number: 48248

List Number: 1

Creator: Vasquez, Julisa

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	



Environment Testing

1
2
3
4
5
6
7
8
9
10
11
12
13
14

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 12/6/2024 12:26:47 PM

## JOB DESCRIPTION

Potato Baby 902H Ranger 5540  
Eddy Co, NM

## JOB NUMBER

880-51810-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated  
12/6/2024 12:26:47 PM

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

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Laboratory Job ID: 880-51810-1  
SDG: Eddy Co, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	9
QC Sample Results . . . . .	10
QC Association Summary . . . . .	14
Lab Chronicle . . . . .	16
Certification Summary . . . . .	17
Method Summary . . . . .	18
Sample Summary . . . . .	19
Chain of Custody . . . . .	20
Receipt Checklists . . . . .	21

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	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: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1

Job ID: 880-51810-1

Eurofins Midland

Job Narrative  
880-51810-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 12/5/2024 11:10 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 -5.2°C.

GC VOA

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

Diesel Range Organics

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

HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97179 and analytical batch 880-97189 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland



## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-51810-1

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 14:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 14:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 14:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/05/24 12:39	12/05/24 14:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 14:52	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/05/24 12:39	12/05/24 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/05/24 12:39	12/05/24 14:52	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/05/24 12:39	12/05/24 14:52	1

## Method: TAL SOP 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			12/05/24 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/05/24 21:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/05/24 21:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/05/24 21:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/05/24 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	12/05/24 12:21	12/05/24 21:46	1
o-Terphenyl	80		70 - 130	12/05/24 12:21	12/05/24 21:46	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.2		9.96		mg/Kg			12/05/24 23:35	1

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

Lab Sample ID: 880-51810-2

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 15:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 15:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 15:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/05/24 12:39	12/05/24 15:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 15:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/05/24 12:39	12/05/24 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/05/24 12:39	12/05/24 15:13	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/05/24 12:39	12/05/24 15:13	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-51810-2

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/05/24 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/05/24 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/05/24 12:21	12/05/24 22:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/05/24 12:21	12/05/24 22:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/05/24 12:21	12/05/24 22:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				12/05/24 12:21	12/05/24 22:01	1
o-Terphenyl	81		70 - 130				12/05/24 12:21	12/05/24 22:01	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		10.1		mg/Kg			12/05/24 23:40	1

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

Lab Sample ID: 880-51810-3

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 15:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 15:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 15:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/24 12:39	12/05/24 15:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 15:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/24 12:39	12/05/24 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				12/05/24 12:39	12/05/24 15:33	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/05/24 12:39	12/05/24 15:33	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/05/24 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/05/24 22:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 22:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 22:17	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

Client Sample ID: H-3 (0-0.5')  
Date Collected: 12/04/24 00:00  
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51810-3  
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				12/05/24 12:21	12/05/24 22:17	1
o-Terphenyl	72		70 - 130				12/05/24 12:21	12/05/24 22:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.3		9.94		mg/Kg			12/05/24 23:46	1

## Surrogate Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
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)
880-51809-A-1-D MS	Matrix Spike	111	101
880-51809-A-1-E MSD	Matrix Spike Duplicate	97	105
880-51810-1	H-1 (0-0.5')	94	92
880-51810-2	H-2 (0-0.5')	90	93
880-51810-3	H-3 (0-0.5')	93	91
LCS 880-97175/1-A	Lab Control Sample	94	102
LCSD 880-97175/2-A	Lab Control Sample Dup	116	105
MB 880-97175/5-A	Method Blank	87	89
<b>Surrogate Legend</b>			
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)
880-51809-A-1-B MS	Matrix Spike	100	82
880-51809-A-1-C MSD	Matrix Spike Duplicate	93	77
880-51810-1	H-1 (0-0.5')	107	80
880-51810-2	H-2 (0-0.5')	108	81
880-51810-3	H-3 (0-0.5')	97	72
LCS 880-97173/2-A	Lab Control Sample	119	105
LCSD 880-97173/3-A	Lab Control Sample Dup	125	111
MB 880-97173/1-A	Method Blank	88	72
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-97175/5-A

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97175

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/24 12:39	12/05/24 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/05/24 12:39	12/05/24 14:10	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/05/24 12:39	12/05/24 14:10	1

Lab Sample ID: LCS 880-97175/1-A

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09850		mg/Kg		99	70 - 130
Toluene	0.100	0.09763		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09588		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-97175/2-A

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09985		mg/Kg		100	70 - 130	1	35
Toluene	0.100	0.1049		mg/Kg		105	70 - 130	7	35
Ethylbenzene	0.100	0.1273		mg/Kg		127	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.2466		mg/Kg		123	70 - 130	23	35
o-Xylene	0.100	0.1213		mg/Kg		121	70 - 130	23	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-51809-A-1-D MS

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09746		mg/Kg		97	70 - 130
Toluene	<0.00200	U	0.100	0.1053		mg/Kg		105	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-51809-A-1-D MS  
Matrix: Solid  
Analysis Batch: 96938

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 97175

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1254		mg/Kg		125	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2372		mg/Kg		119	70 - 130
o-Xylene	<0.00200	U	0.100	0.1160		mg/Kg		116	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	111		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: 880-51809-A-1-E MSD  
Matrix: Solid  
Analysis Batch: 96938

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 97175

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1012		mg/Kg		101	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.09857		mg/Kg		99	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.1023		mg/Kg		102	70 - 130	20	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2008		mg/Kg		100	70 - 130	17	35
o-Xylene	<0.00200	U	0.100	0.09868		mg/Kg		99	70 - 130	16	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	97		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

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

Lab Sample ID: MB 880-97173/1-A  
Matrix: Solid  
Analysis Batch: 97126

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 97173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	88		70 - 130						
o-Terphenyl	72		70 - 130						

Lab Sample ID: LCS 880-97173/2-A  
Matrix: Solid  
Analysis Batch: 97126

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 97173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1246		mg/Kg		125	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1004		mg/Kg		100	70 - 130

Eurofins Midland



## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-97173/2-A

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97173

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-97173/3-A

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1270		mg/Kg		127	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-51809-A-1-B MS

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	877.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	765.4		mg/Kg		77	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-51809-A-1-C MSD

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	826.0		mg/Kg		83	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	995	700.7		mg/Kg		70	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	77		70 - 130

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97179/1-A

Matrix: Solid

Analysis Batch: 97189

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/05/24 23:04	1

Lab Sample ID: LCS 880-97179/2-A

Matrix: Solid

Analysis Batch: 97189

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.8		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-97179/3-A

Matrix: Solid

Analysis Batch: 97189

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	247.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-51809-A-1-H MS

Matrix: Solid

Analysis Batch: 97189

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	72.2	F1	248	350.5	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-51809-A-1-I MSD

Matrix: Solid

Analysis Batch: 97189

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	72.2	F1	248	351.0	F1	mg/Kg		112	90 - 110	0	20

## QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

## GC VOA

## Analysis Batch: 96938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51810-1	H-1 (0-0.5')	Total/NA	Solid	8021B	97175
880-51810-2	H-2 (0-0.5')	Total/NA	Solid	8021B	97175
880-51810-3	H-3 (0-0.5')	Total/NA	Solid	8021B	97175
MB 880-97175/5-A	Method Blank	Total/NA	Solid	8021B	97175
LCS 880-97175/1-A	Lab Control Sample	Total/NA	Solid	8021B	97175
LCSD 880-97175/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97175
880-51809-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	97175
880-51809-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97175

## Prep Batch: 97175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51810-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-51810-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-51810-3	H-3 (0-0.5')	Total/NA	Solid	5035	
MB 880-97175/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97175/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97175/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51809-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-51809-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 97273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51810-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-51810-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-51810-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 97126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51810-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	97173
880-51810-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	97173
880-51810-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	97173
MB 880-97173/1-A	Method Blank	Total/NA	Solid	8015B NM	97173
LCS 880-97173/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97173
LCSD 880-97173/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97173
880-51809-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	97173
880-51809-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97173

## Prep Batch: 97173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51810-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-51810-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-51810-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-97173/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97173/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97173/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51809-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51809-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

GC Semi VOA

Analysis Batch: 97249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51810-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-51810-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-51810-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51810-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-51810-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-51810-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-97179/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97179/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97179/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51809-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	
880-51809-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 97189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51810-1	H-1 (0-0.5')	Soluble	Solid	300.0	97179
880-51810-2	H-2 (0-0.5')	Soluble	Solid	300.0	97179
880-51810-3	H-3 (0-0.5')	Soluble	Solid	300.0	97179
MB 880-97179/1-A	Method Blank	Soluble	Solid	300.0	97179
LCS 880-97179/2-A	Lab Control Sample	Soluble	Solid	300.0	97179
LCSD 880-97179/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97179
880-51809-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	97179
880-51809-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	97179

Lab Chronicle

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

**Client Sample ID: H-1 (0-0.5')**  
**Date Collected: 12/04/24 00:00**  
**Date Received: 12/05/24 11:10**

**Lab Sample ID: 880-51810-1**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 14:52	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97273	12/05/24 14:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97249	12/05/24 21:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/05/24 21:46	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/05/24 23:35	CH	EET MID

**Client Sample ID: H-2 (0-0.5')**  
**Date Collected: 12/04/24 00:00**  
**Date Received: 12/05/24 11:10**

**Lab Sample ID: 880-51810-2**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 15:13	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97273	12/05/24 15:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97249	12/05/24 22:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/05/24 22:01	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/05/24 23:40	CH	EET MID

**Client Sample ID: H-3 (0-0.5')**  
**Date Collected: 12/04/24 00:00**  
**Date Received: 12/05/24 11:10**

**Lab Sample ID: 880-51810-3**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 15:33	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97273	12/05/24 15:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97249	12/05/24 22:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/05/24 22:17	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/05/24 23:46	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



Method Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51810-1  
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51810-1	H-1 (0-0.5')	Solid	12/04/24 00:00	12/05/24 11:10
880-51810-2	H-2 (0-0.5')	Solid	12/04/24 00:00	12/05/24 11:10
880-51810-3	H-3 (0-0.5')	Solid	12/04/24 00:00	12/05/24 11:10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Chain of Custody

Project Manager:	Conner Moehning	Bill to: (if different)	Camrona Resources
Company Name:	Camrona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	<a href="mailto:mcamrona@camronaresources.com">mcamrona@camronaresources.com</a>

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




880-51810 Chain of Custody

Page 1 of 1

[illegible]

**Comments: Email to Mike Carmona / [Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)**

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	12/6/24 @ 11:02		12/5/110

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51810-1

SDG Number: Eddy Co, NM

Login Number: 51810

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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	



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 12/6/2024 12:28:55 PM

## JOB DESCRIPTION

Potato Baby 902H Ranger 5540  
Eddy Co, NM

## JOB NUMBER

880-51815-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

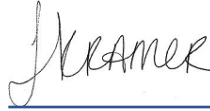
# Eurofins Midland

## Job Notes

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

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

## Authorization



Generated  
12/6/2024 12:28:55 PM

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

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Laboratory Job ID: 880-51815-1  
SDG: Eddy Co, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	13
QC Sample Results . . . . .	14
QC Association Summary . . . . .	18
Lab Chronicle . . . . .	21
Certification Summary . . . . .	24
Method Summary . . . . .	25
Sample Summary . . . . .	26
Chain of Custody . . . . .	27
Receipt Checklists . . . . .	28

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Definitions/Glossary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

Glossary

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

## Case Narrative

Client: Carmona Resources  
Project: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1

**Job ID: 880-51815-1**

**Eurofins Midland**

### Job Narrative 880-51815-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### Receipt

The samples were received on 12/5/2024 11:10 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 -5.2°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (2.5') (880-51815-1), CS-2 (2.5') (880-51815-2), CS-3 (2.5') (880-51815-3), CS-4 (2.5') (880-51815-4), CS-5 (2.5') (880-51815-5), SW-1 (2.5') (880-51815-6), SW-2 (2.5') (880-51815-7), SW-3 (2.5') (880-51815-8) and SW-4 (2.5') (880-51815-9).

#### GC VOA

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

#### Diesel Range Organics

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: SW-2 (2.5') (880-51815-7). 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

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97179 and analytical batch 880-97189 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Client Sample ID: CS-1 (2.5')

Lab Sample ID: 880-51815-1

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 20:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 20:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 20:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/24 12:39	12/05/24 20:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 20:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/24 12:39	12/05/24 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/05/24 12:39	12/05/24 20:19	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/05/24 12:39	12/05/24 20:19	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/05/24 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/06/24 00:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/06/24 00:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/06/24 00:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/06/24 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	12/05/24 12:21	12/06/24 00:42	1
o-Terphenyl	77		70 - 130	12/05/24 12:21	12/06/24 00:42	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.5		10.0		mg/Kg			12/06/24 00:49	1

Client Sample ID: CS-2 (2.5')

Lab Sample ID: 880-51815-2

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 20:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 20:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 20:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/05/24 12:39	12/05/24 20:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 20:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/05/24 12:39	12/05/24 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/05/24 12:39	12/05/24 20:40	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/05/24 12:39	12/05/24 20:40	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Client Sample ID: CS-2 (2.5')

Lab Sample ID: 880-51815-2

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/05/24 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/06/24 00:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 00:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 00:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				12/05/24 12:21	12/06/24 00:58	1
o-Terphenyl	72		70 - 130				12/05/24 12:21	12/06/24 00:58	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.0		10.0		mg/Kg			12/06/24 00:54	1

Client Sample ID: CS-3 (2.5')

Lab Sample ID: 880-51815-3

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 21:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 21:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 21:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/05/24 12:39	12/05/24 21:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/05/24 12:39	12/05/24 21:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/05/24 12:39	12/05/24 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				12/05/24 12:39	12/05/24 21:00	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/05/24 12:39	12/05/24 21:00	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/05/24 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/06/24 01:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 01:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 01:14	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

## Client Sample ID: CS-3 (2.5')

Lab Sample ID: 880-51815-3

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				12/05/24 12:21	12/06/24 01:14	1
o-Terphenyl	70		70 - 130				12/05/24 12:21	12/06/24 01:14	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.3		9.96		mg/Kg			12/06/24 01:10	1

## Client Sample ID: CS-4 (2.5')

Lab Sample ID: 880-51815-4

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 21:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 21:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 21:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/24 12:39	12/05/24 21:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 21:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/24 12:39	12/05/24 21:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				12/05/24 12:39	12/05/24 21:21	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/05/24 12:39	12/05/24 21:21	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/05/24 21:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			12/06/24 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		12/05/24 12:21	12/06/24 01:30	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		12/05/24 12:21	12/06/24 01:30	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/05/24 12:21	12/06/24 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				12/05/24 12:21	12/06/24 01:30	1
o-Terphenyl	70		70 - 130				12/05/24 12:21	12/06/24 01:30	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.0		9.92		mg/Kg			12/06/24 01:15	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Client Sample ID: CS-5 (2.5')

Lab Sample ID: 880-51815-5

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 21:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 21:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 21:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/05/24 12:39	12/05/24 21:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 21:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/05/24 12:39	12/05/24 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/05/24 12:39	12/05/24 21:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/05/24 12:39	12/05/24 21:41	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/05/24 21:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/06/24 01:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/24 12:21	12/06/24 01:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/24 12:21	12/06/24 01:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 12:21	12/06/24 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	12/05/24 12:21	12/06/24 01:46	1
o-Terphenyl	72		70 - 130	12/05/24 12:21	12/06/24 01:46	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.6		10.0		mg/Kg			12/06/24 01:20	1

Client Sample ID: SW-1 (2.5')

Lab Sample ID: 880-51815-6

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 22:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 22:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 22:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/24 12:39	12/05/24 22:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 22:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/24 12:39	12/05/24 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	12/05/24 12:39	12/05/24 22:02	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/05/24 12:39	12/05/24 22:02	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Client Sample ID: SW-1 (2.5')

Lab Sample ID: 880-51815-6

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/05/24 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/06/24 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/05/24 12:21	12/06/24 02:02	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/05/24 12:21	12/06/24 02:02	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/05/24 12:21	12/06/24 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				12/05/24 12:21	12/06/24 02:02	1
o-Terphenyl	74		70 - 130				12/05/24 12:21	12/06/24 02:02	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.0		9.96		mg/Kg			12/06/24 01:26	1

Client Sample ID: SW-2 (2.5')

Lab Sample ID: 880-51815-7

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 22:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 22:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 22:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/05/24 12:39	12/05/24 22:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 22:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/05/24 12:39	12/05/24 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				12/05/24 12:39	12/05/24 22:22	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/05/24 12:39	12/05/24 22:22	1

## Method: TAL SOP 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			12/05/24 22:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/06/24 02:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/06/24 02:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/06/24 02:18	1

Eurofins Midland



## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Client Sample ID: SW-2 (2.5')

Lab Sample ID: 880-51815-7

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/06/24 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/05/24 12:21	12/06/24 02:18	1
o-Terphenyl	69	S1-	70 - 130				12/05/24 12:21	12/06/24 02:18	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.7		9.98		mg/Kg			12/06/24 01:31	1

Client Sample ID: SW-3 (2.5')

Lab Sample ID: 880-51815-8

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 22:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 22:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 22:43	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/05/24 12:39	12/05/24 22:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/05/24 12:39	12/05/24 22:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/05/24 12:39	12/05/24 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				12/05/24 12:39	12/05/24 22:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/05/24 12:39	12/05/24 22:43	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/05/24 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/06/24 02:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 02:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 02:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				12/05/24 12:21	12/06/24 02:34	1
o-Terphenyl	73		70 - 130				12/05/24 12:21	12/06/24 02:34	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.7		10.0		mg/Kg			12/06/24 01:36	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Client Sample ID: SW-4 (2.5')

Lab Sample ID: 880-51815-9

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 23:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 23:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 23:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/24 12:39	12/05/24 23:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/05/24 12:39	12/05/24 23:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/24 12:39	12/05/24 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	12/05/24 12:39	12/05/24 23:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/05/24 12:39	12/05/24 23:03	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/05/24 23:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/06/24 02:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 02:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 02:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 12:21	12/06/24 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	12/05/24 12:21	12/06/24 02:48	1
o-Terphenyl	73		70 - 130	12/05/24 12:21	12/06/24 02:48	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.1		10.0		mg/Kg			12/06/24 01:41	1

Eurofins Midland

## Surrogate Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
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	DFBZ1				
		(70-130)	(70-130)				
880-51809-A-1-D MS	Matrix Spike	111	101				
880-51809-A-1-E MSD	Matrix Spike Duplicate	97	105				
880-51815-1	CS-1 (2.5')	97	96				
880-51815-2	CS-2 (2.5')	94	91				
880-51815-3	CS-3 (2.5')	98	94				
880-51815-4	CS-4 (2.5')	94	94				
880-51815-5	CS-5 (2.5')	94	91				
880-51815-6	SW-1 (2.5')	98	93				
880-51815-7	SW-2 (2.5')	93	93				
880-51815-8	SW-3 (2.5')	94	95				
880-51815-9	SW-4 (2.5')	102	95				
LCS 880-97175/1-A	Lab Control Sample	94	102				
LCSD 880-97175/2-A	Lab Control Sample Dup	116	105				
MB 880-97175/5-A	Method Blank	87	89				
<b>Surrogate Legend</b>							
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	OTPH1				
		(70-130)	(70-130)				
880-51809-A-1-B MS	Matrix Spike	100	82				
880-51809-A-1-C MSD	Matrix Spike Duplicate	93	77				
880-51815-1	CS-1 (2.5')	102	77				
880-51815-2	CS-2 (2.5')	95	72				
880-51815-3	CS-3 (2.5')	93	70				
880-51815-4	CS-4 (2.5')	93	70				
880-51815-5	CS-5 (2.5')	97	72				
880-51815-6	SW-1 (2.5')	99	74				
880-51815-7	SW-2 (2.5')	91	69 S1-				
880-51815-8	SW-3 (2.5')	96	73				
880-51815-9	SW-4 (2.5')	98	73				
LCS 880-97173/2-A	Lab Control Sample	119	105				
LCSD 880-97173/3-A	Lab Control Sample Dup	125	111				
MB 880-97173/1-A	Method Blank	88	72				
<b>Surrogate Legend</b>							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-97175/5-A

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97175

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/24 12:39	12/05/24 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/05/24 12:39	12/05/24 14:10	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/05/24 12:39	12/05/24 14:10	1

Lab Sample ID: LCS 880-97175/1-A

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09850		mg/Kg		99	70 - 130
Toluene	0.100	0.09763		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09588		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-97175/2-A

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09985		mg/Kg		100	70 - 130	1	35
Toluene	0.100	0.1049		mg/Kg		105	70 - 130	7	35
Ethylbenzene	0.100	0.1273		mg/Kg		127	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.2466		mg/Kg		123	70 - 130	23	35
o-Xylene	0.100	0.1213		mg/Kg		121	70 - 130	23	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-51809-A-1-D MS

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09746		mg/Kg		97	70 - 130
Toluene	<0.00200	U	0.100	0.1053		mg/Kg		105	70 - 130

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-51809-A-1-D MS

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1254		mg/Kg		125	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2372		mg/Kg		119	70 - 130
o-Xylene	<0.00200	U	0.100	0.1160		mg/Kg		116	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-51809-A-1-E MSD

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1012		mg/Kg		101	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.09857		mg/Kg		99	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.1023		mg/Kg		102	70 - 130	20	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2008		mg/Kg		100	70 - 130	17	35
o-Xylene	<0.00200	U	0.100	0.09868		mg/Kg		99	70 - 130	16	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-97173/1-A

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	12/05/24 12:21	12/05/24 20:08	1
o-Terphenyl	72		70 - 130	12/05/24 12:21	12/05/24 20:08	1

Lab Sample ID: LCS 880-97173/2-A

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1246		mg/Kg		125	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1004		mg/Kg		100	70 - 130

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-97173/2-A

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97173

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-97173/3-A

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1270		mg/Kg		127	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-51809-A-1-B MS

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	877.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	765.4		mg/Kg		77	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-51809-A-1-C MSD

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	826.0		mg/Kg		83	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	995	700.7		mg/Kg		70	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	77		70 - 130

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97179/1-A

Matrix: Solid

Analysis Batch: 97189

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/05/24 23:04	1

Lab Sample ID: LCS 880-97179/2-A

Matrix: Solid

Analysis Batch: 97189

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.8		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-97179/3-A

Matrix: Solid

Analysis Batch: 97189

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	247.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-51813-A-7-D MS

Matrix: Solid

Analysis Batch: 97189

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	61.9	F1	249	336.7	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-51813-A-7-E MSD

Matrix: Solid

Analysis Batch: 97189

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	61.9	F1	249	335.0		mg/Kg		110	90 - 110	0	20



## QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

## GC VOA

## Analysis Batch: 96938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51815-1	CS-1 (2.5')	Total/NA	Solid	8021B	97175
880-51815-2	CS-2 (2.5')	Total/NA	Solid	8021B	97175
880-51815-3	CS-3 (2.5')	Total/NA	Solid	8021B	97175
880-51815-4	CS-4 (2.5')	Total/NA	Solid	8021B	97175
880-51815-5	CS-5 (2.5')	Total/NA	Solid	8021B	97175
880-51815-6	SW-1 (2.5')	Total/NA	Solid	8021B	97175
880-51815-7	SW-2 (2.5')	Total/NA	Solid	8021B	97175
880-51815-8	SW-3 (2.5')	Total/NA	Solid	8021B	97175
880-51815-9	SW-4 (2.5')	Total/NA	Solid	8021B	97175
MB 880-97175/5-A	Method Blank	Total/NA	Solid	8021B	97175
LCS 880-97175/1-A	Lab Control Sample	Total/NA	Solid	8021B	97175
LCSD 880-97175/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97175
880-51809-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	97175
880-51809-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97175

## Prep Batch: 97175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51815-1	CS-1 (2.5')	Total/NA	Solid	5035	
880-51815-2	CS-2 (2.5')	Total/NA	Solid	5035	
880-51815-3	CS-3 (2.5')	Total/NA	Solid	5035	
880-51815-4	CS-4 (2.5')	Total/NA	Solid	5035	
880-51815-5	CS-5 (2.5')	Total/NA	Solid	5035	
880-51815-6	SW-1 (2.5')	Total/NA	Solid	5035	
880-51815-7	SW-2 (2.5')	Total/NA	Solid	5035	
880-51815-8	SW-3 (2.5')	Total/NA	Solid	5035	
880-51815-9	SW-4 (2.5')	Total/NA	Solid	5035	
MB 880-97175/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97175/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97175/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51809-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-51809-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 97275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51815-1	CS-1 (2.5')	Total/NA	Solid	Total BTEX	
880-51815-2	CS-2 (2.5')	Total/NA	Solid	Total BTEX	
880-51815-3	CS-3 (2.5')	Total/NA	Solid	Total BTEX	
880-51815-4	CS-4 (2.5')	Total/NA	Solid	Total BTEX	
880-51815-5	CS-5 (2.5')	Total/NA	Solid	Total BTEX	
880-51815-6	SW-1 (2.5')	Total/NA	Solid	Total BTEX	
880-51815-7	SW-2 (2.5')	Total/NA	Solid	Total BTEX	
880-51815-8	SW-3 (2.5')	Total/NA	Solid	Total BTEX	
880-51815-9	SW-4 (2.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 97126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51815-1	CS-1 (2.5')	Total/NA	Solid	8015B NM	97173
880-51815-2	CS-2 (2.5')	Total/NA	Solid	8015B NM	97173
880-51815-3	CS-3 (2.5')	Total/NA	Solid	8015B NM	97173

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## Analysis Batch: 97126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51815-4	CS-4 (2.5')	Total/NA	Solid	8015B NM	97173
880-51815-5	CS-5 (2.5')	Total/NA	Solid	8015B NM	97173
880-51815-6	SW-1 (2.5')	Total/NA	Solid	8015B NM	97173
880-51815-7	SW-2 (2.5')	Total/NA	Solid	8015B NM	97173
880-51815-8	SW-3 (2.5')	Total/NA	Solid	8015B NM	97173
880-51815-9	SW-4 (2.5')	Total/NA	Solid	8015B NM	97173
MB 880-97173/1-A	Method Blank	Total/NA	Solid	8015B NM	97173
LCS 880-97173/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97173
LCSD 880-97173/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97173
880-51809-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	97173
880-51809-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97173

## Prep Batch: 97173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51815-1	CS-1 (2.5')	Total/NA	Solid	8015NM Prep	
880-51815-2	CS-2 (2.5')	Total/NA	Solid	8015NM Prep	
880-51815-3	CS-3 (2.5')	Total/NA	Solid	8015NM Prep	
880-51815-4	CS-4 (2.5')	Total/NA	Solid	8015NM Prep	
880-51815-5	CS-5 (2.5')	Total/NA	Solid	8015NM Prep	
880-51815-6	SW-1 (2.5')	Total/NA	Solid	8015NM Prep	
880-51815-7	SW-2 (2.5')	Total/NA	Solid	8015NM Prep	
880-51815-8	SW-3 (2.5')	Total/NA	Solid	8015NM Prep	
880-51815-9	SW-4 (2.5')	Total/NA	Solid	8015NM Prep	
MB 880-97173/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97173/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97173/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51809-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51809-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 97251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51815-1	CS-1 (2.5')	Total/NA	Solid	8015 NM	
880-51815-2	CS-2 (2.5')	Total/NA	Solid	8015 NM	
880-51815-3	CS-3 (2.5')	Total/NA	Solid	8015 NM	
880-51815-4	CS-4 (2.5')	Total/NA	Solid	8015 NM	
880-51815-5	CS-5 (2.5')	Total/NA	Solid	8015 NM	
880-51815-6	SW-1 (2.5')	Total/NA	Solid	8015 NM	
880-51815-7	SW-2 (2.5')	Total/NA	Solid	8015 NM	
880-51815-8	SW-3 (2.5')	Total/NA	Solid	8015 NM	
880-51815-9	SW-4 (2.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 97179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51815-1	CS-1 (2.5')	Soluble	Solid	DI Leach	
880-51815-2	CS-2 (2.5')	Soluble	Solid	DI Leach	
880-51815-3	CS-3 (2.5')	Soluble	Solid	DI Leach	
880-51815-4	CS-4 (2.5')	Soluble	Solid	DI Leach	
880-51815-5	CS-5 (2.5')	Soluble	Solid	DI Leach	
880-51815-6	SW-1 (2.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 97179 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51815-7	SW-2 (2.5')	Soluble	Solid	DI Leach	
880-51815-8	SW-3 (2.5')	Soluble	Solid	DI Leach	
880-51815-9	SW-4 (2.5')	Soluble	Solid	DI Leach	
MB 880-97179/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97179/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97179/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51813-A-7-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-51813-A-7-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 97189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51815-1	CS-1 (2.5')	Soluble	Solid	300.0	97179
880-51815-2	CS-2 (2.5')	Soluble	Solid	300.0	97179
880-51815-3	CS-3 (2.5')	Soluble	Solid	300.0	97179
880-51815-4	CS-4 (2.5')	Soluble	Solid	300.0	97179
880-51815-5	CS-5 (2.5')	Soluble	Solid	300.0	97179
880-51815-6	SW-1 (2.5')	Soluble	Solid	300.0	97179
880-51815-7	SW-2 (2.5')	Soluble	Solid	300.0	97179
880-51815-8	SW-3 (2.5')	Soluble	Solid	300.0	97179
880-51815-9	SW-4 (2.5')	Soluble	Solid	300.0	97179
MB 880-97179/1-A	Method Blank	Soluble	Solid	300.0	97179
LCS 880-97179/2-A	Lab Control Sample	Soluble	Solid	300.0	97179
LCSD 880-97179/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97179
880-51813-A-7-D MS	Matrix Spike	Soluble	Solid	300.0	97179
880-51813-A-7-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	97179

Lab Chronicle

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Client Sample ID: CS-1 (2.5')

Lab Sample ID: 880-51815-1

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 20:19	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97275	12/05/24 20:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97251	12/06/24 00:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/06/24 00:42	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/06/24 00:49	CH	EET MID

Client Sample ID: CS-2 (2.5')

Lab Sample ID: 880-51815-2

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 20:40	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97275	12/05/24 20:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97251	12/06/24 00:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/06/24 00:58	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/06/24 00:54	CH	EET MID

Client Sample ID: CS-3 (2.5')

Lab Sample ID: 880-51815-3

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 21:00	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97275	12/05/24 21:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97251	12/06/24 01:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/06/24 01:14	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/06/24 01:10	CH	EET MID

Client Sample ID: CS-4 (2.5')

Lab Sample ID: 880-51815-4

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 21:21	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97275	12/05/24 21:21	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Client Sample ID: CS-4 (2.5')

Lab Sample ID: 880-51815-4

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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			97251	12/06/24 01:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/06/24 01:30	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/06/24 01:15	CH	EET MID

Client Sample ID: CS-5 (2.5')

Lab Sample ID: 880-51815-5

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 21:41	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97275	12/05/24 21:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97251	12/06/24 01:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/06/24 01:46	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/06/24 01:20	CH	EET MID

Client Sample ID: SW-1 (2.5')

Lab Sample ID: 880-51815-6

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 22:02	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97275	12/05/24 22:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97251	12/06/24 02:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/06/24 02:02	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/06/24 01:26	CH	EET MID

Client Sample ID: SW-2 (2.5')

Lab Sample ID: 880-51815-7

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 22:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97275	12/05/24 22:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97251	12/06/24 02:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/06/24 02:18	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Client Sample ID: SW-2 (2.5')

Lab Sample ID: 880-51815-7

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/06/24 01:31	CH	EET MID

Client Sample ID: SW-3 (2.5')

Lab Sample ID: 880-51815-8

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 22:43	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97275	12/05/24 22:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97251	12/06/24 02:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/06/24 02:34	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/06/24 01:36	CH	EET MID

Client Sample ID: SW-4 (2.5')

Lab Sample ID: 880-51815-9

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 23:03	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97275	12/05/24 23:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97251	12/06/24 02:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/06/24 02:48	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/06/24 01:41	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



Method Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51815-1  
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51815-1	CS-1 (2.5')	Solid	12/04/24 00:00	12/05/24 11:10
880-51815-2	CS-2 (2.5')	Solid	12/04/24 00:00	12/05/24 11:10
880-51815-3	CS-3 (2.5')	Solid	12/04/24 00:00	12/05/24 11:10
880-51815-4	CS-4 (2.5')	Solid	12/04/24 00:00	12/05/24 11:10
880-51815-5	CS-5 (2.5')	Solid	12/04/24 00:00	12/05/24 11:10
880-51815-6	SW-1 (2.5')	Solid	12/04/24 00:00	12/05/24 11:10
880-51815-7	SW-2 (2.5')	Solid	12/04/24 00:00	12/05/24 11:10
880-51815-8	SW-3 (2.5')	Solid	12/04/24 00:00	12/05/24 11:10
880-51815-9	SW-4 (2.5')	Solid	12/04/24 00:00	12/05/24 11:10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody



880-51815 Chain of Custody

Page 1 of 1

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

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

Project Name:	Potato Baby 902H Ranger 5540	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Project Number:	2502	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush		None: NO	DI Water: H <sub>2</sub> O																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Project Location	Eddy Co. NM	Due Date:	24 Hrs		Cool: Cool	MeOH: Me																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Sampler's Name:	CMM				HCL: HC	HNO <sub>3</sub> : HN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
PO #:					H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Received Intact:	Yes No	Thermometer ID:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Cooler Custody Seals:	Yes No N/A	Correction Factor:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Sample Custody Seals:	Yes No N/A	Temperature Reading:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Total Containers:		Corrected Temperature:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CS-1 (2.5')	12/4/2024			X		C	1	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

Comments: Email to Mike Carmona / [Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	12/5/24 @ 11:02		12/5 1110

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51815-1

SDG Number: Eddy Co, NM

Login Number: 51815

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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	



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 12/6/2024 12:26:19 PM

## JOB DESCRIPTION

Potato Baby 902H Ranger 5540  
Eddy Co, NM

## JOB NUMBER

880-51809-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

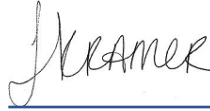
# Eurofins Midland

## Job Notes

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

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

## Authorization



Generated  
12/6/2024 12:26:19 PM

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

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Laboratory Job ID: 880-51809-1  
SDG: Eddy Co, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	7
QC Sample Results . . . . .	8
QC Association Summary . . . . .	12
Lab Chronicle . . . . .	14
Certification Summary . . . . .	15
Method Summary . . . . .	16
Sample Summary . . . . .	17
Chain of Custody . . . . .	18
Receipt Checklists . . . . .	19

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Definitions/Glossary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	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: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1

**Job ID: 880-51809-1**

**Eurofins Midland**

### Job Narrative 880-51809-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### Receipt

The sample was received on 12/5/2024 11:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -5.2°C.

#### Receipt Exceptions

The following samples received and analyzed from an unpreserved bulk soil jar: Backfill (880-51809-1).

#### GC VOA

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

#### Diesel Range Organics

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

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97179 and analytical batch 880-97189 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

Client Sample ID: Backfill

Lab Sample ID: 880-51809-1

Date Collected: 12/04/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/05/24 12:39	12/05/24 14:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/05/24 12:39	12/05/24 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/05/24 12:39	12/05/24 14:32	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/05/24 12:39	12/05/24 14:32	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/05/24 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/05/24 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	12/05/24 12:21	12/05/24 20:58	1
o-Terphenyl	73		70 - 130	12/05/24 12:21	12/05/24 20:58	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.2	F1	9.92		mg/Kg			12/05/24 23:19	1

Surrogate Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
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)
880-51809-1	Backfill	90	94
880-51809-1 MS	Backfill	111	101
880-51809-1 MSD	Backfill	97	105
LCS 880-97175/1-A	Lab Control Sample	94	102
LCSD 880-97175/2-A	Lab Control Sample Dup	116	105
MB 880-97175/5-A	Method Blank	87	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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-51809-1	Backfill	98	73
880-51809-1 MS	Backfill	100	82
880-51809-1 MSD	Backfill	93	77
LCS 880-97173/2-A	Lab Control Sample	119	105
LCSD 880-97173/3-A	Lab Control Sample Dup	125	111
MB 880-97173/1-A	Method Blank	88	72
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-97175/5-A

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97175

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 12:39	12/05/24 14:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/24 12:39	12/05/24 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/05/24 12:39	12/05/24 14:10	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/05/24 12:39	12/05/24 14:10	1

Lab Sample ID: LCS 880-97175/1-A

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09850		mg/Kg		99	70 - 130
Toluene	0.100	0.09763		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09588		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-97175/2-A

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09985		mg/Kg		100	70 - 130	1	35
Toluene	0.100	0.1049		mg/Kg		105	70 - 130	7	35
Ethylbenzene	0.100	0.1273		mg/Kg		127	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.2466		mg/Kg		123	70 - 130	23	35
o-Xylene	0.100	0.1213		mg/Kg		121	70 - 130	23	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-51809-1 MS

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Backfill

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09746		mg/Kg		97	70 - 130
Toluene	<0.00200	U	0.100	0.1053		mg/Kg		105	70 - 130

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-51809-1 MS

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Backfill

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Ethylbenzene	<0.00200	U	0.100	0.1254		mg/Kg		125	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2372		mg/Kg		119	70 - 130	
o-Xylene	<0.00200	U	0.100	0.1160		mg/Kg		116	70 - 130	
		MS	MS							
Surrogate		%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)		111		70 - 130						
1,4-Difluorobenzene (Surr)		101		70 - 130						

Lab Sample ID: 880-51809-1 MSD

Matrix: Solid

Analysis Batch: 96938

Client Sample ID: Backfill

Prep Type: Total/NA

Prep Batch: 97175

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits		RPD	Limit
Benzene	<0.00200	U	0.100	0.1012		mg/Kg		101	70 - 130		4	35
Toluene	<0.00200	U	0.100	0.09857		mg/Kg		99	70 - 130		7	35
Ethylbenzene	<0.00200	U	0.100	0.1023		mg/Kg		102	70 - 130		20	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2008		mg/Kg		100	70 - 130		17	35
o-Xylene	<0.00200	U	0.100	0.09868		mg/Kg		99	70 - 130		16	35
		MSD	MSD									
Surrogate		%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)		97		70 - 130								
1,4-Difluorobenzene (Surr)		105		70 - 130								

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

Lab Sample ID: MB 880-97173/1-A

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97173

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 12:21	12/05/24 20:08	1
		MB	MB						
Surrogate		%Recovery	Qualifier	Limits	Prepared		Analyzed		Dil Fac
1-Chlorooctane		88		70 - 130	12/05/24 12:21		12/05/24 20:08		1
o-Terphenyl		72		70 - 130	12/05/24 12:21		12/05/24 20:08		1

Lab Sample ID: LCS 880-97173/2-A

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	
							Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1246		mg/Kg		125	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1004		mg/Kg		100	70 - 130	

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-97173/2-A

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97173

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-97173/3-A

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1270		mg/Kg		127	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-51809-1 MS

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Backfill

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	877.4		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	765.4		mg/Kg		77	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-51809-1 MSD

Matrix: Solid

Analysis Batch: 97126

Client Sample ID: Backfill

Prep Type: Total/NA

Prep Batch: 97173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	826.0		mg/Kg		83	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	995	700.7		mg/Kg		70	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	77		70 - 130

Eurofins Midland



## QC Sample Results

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97179/1-A

Matrix: Solid

Analysis Batch: 97189

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/05/24 23:04	1

Lab Sample ID: LCS 880-97179/2-A

Matrix: Solid

Analysis Batch: 97189

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.8		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-97179/3-A

Matrix: Solid

Analysis Batch: 97189

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	247.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-51809-1 MS

Matrix: Solid

Analysis Batch: 97189

Client Sample ID: Backfill

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	72.2	F1	248	350.5	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-51809-1 MSD

Matrix: Solid

Analysis Batch: 97189

Client Sample ID: Backfill

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	72.2	F1	248	351.0	F1	mg/Kg		112	90 - 110	0	20

## QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

## GC VOA

## Analysis Batch: 96938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51809-1	Backfill	Total/NA	Solid	8021B	97175
MB 880-97175/5-A	Method Blank	Total/NA	Solid	8021B	97175
LCS 880-97175/1-A	Lab Control Sample	Total/NA	Solid	8021B	97175
LCSD 880-97175/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97175
880-51809-1 MS	Backfill	Total/NA	Solid	8021B	97175
880-51809-1 MSD	Backfill	Total/NA	Solid	8021B	97175

## Prep Batch: 97175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51809-1	Backfill	Total/NA	Solid	5035	
MB 880-97175/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97175/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97175/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51809-1 MS	Backfill	Total/NA	Solid	5035	
880-51809-1 MSD	Backfill	Total/NA	Solid	5035	

## Analysis Batch: 97272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51809-1	Backfill	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 97126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51809-1	Backfill	Total/NA	Solid	8015B NM	97173
MB 880-97173/1-A	Method Blank	Total/NA	Solid	8015B NM	97173
LCS 880-97173/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97173
LCSD 880-97173/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97173
880-51809-1 MS	Backfill	Total/NA	Solid	8015B NM	97173
880-51809-1 MSD	Backfill	Total/NA	Solid	8015B NM	97173

## Prep Batch: 97173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51809-1	Backfill	Total/NA	Solid	8015NM Prep	
MB 880-97173/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97173/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97173/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51809-1 MS	Backfill	Total/NA	Solid	8015NM Prep	
880-51809-1 MSD	Backfill	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 97248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51809-1	Backfill	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 97179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51809-1	Backfill	Soluble	Solid	DI Leach	
MB 880-97179/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97179/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97179/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 97179 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51809-1 MS	Backfill	Soluble	Solid	DI Leach	
880-51809-1 MSD	Backfill	Soluble	Solid	DI Leach	

Analysis Batch: 97189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51809-1	Backfill	Soluble	Solid	300.0	97179
MB 880-97179/1-A	Method Blank	Soluble	Solid	300.0	97179
LCS 880-97179/2-A	Lab Control Sample	Soluble	Solid	300.0	97179
LCSD 880-97179/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97179
880-51809-1 MS	Backfill	Soluble	Solid	300.0	97179
880-51809-1 MSD	Backfill	Soluble	Solid	300.0	97179

Lab Chronicle

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

Client Sample ID: Backfill  
Date Collected: 12/04/24 00:00  
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51809-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97175	12/05/24 12:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96938	12/05/24 14:32	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97272	12/05/24 14:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97248	12/05/24 20:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97173	12/05/24 12:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97126	12/05/24 20:58	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97179	12/05/24 13:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97189	12/05/24 23:19	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources  
Project/Site: Potato Baby 902H Ranger 5540

Job ID: 880-51809-1  
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51809-1	Backfill	Solid	12/04/24 00:00	12/05/24 11:10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



## Chain of Custody

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

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

[illegible]

**Comments: Email to Mike Carmona / [Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)**

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	12/5/24 @ 11:00		12/5/11/0



880-51809 Chain of Custody

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51809-1

SDG Number: Eddy Co, NM

Login Number: 51809

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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	

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 418331

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 418331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2433733388
Incident Name	NAPP2433733388 POTATO BABY ST 34N CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2129346593] POTATO BABY ST 34N CTB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	POTATO BABY ST 34N CTB
Date Release Discovered	08/08/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbbls) Details	Not answered.
Produced Water Released (bbbls) Details	Cause: Corrosion   Other (Specify)   Produced Water   Released: 8 BBL   Recovered: 0 BBL   Lost: 8 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 418331

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 418331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: <a href="mailto:brittany.Esparza@ConocoPhillips.com">brittany.Esparza@ConocoPhillips.com</a> Date: 12/02/2024
--	--

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 418331

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	418331
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1280
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3820
GRO+DRO (EPA SW-846 Method 8015M)	3820
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	11/21/2024
On what date will (or did) the final sampling or liner inspection occur	12/04/2024
On what date will (or was) the remediation complete(d)	12/06/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	950
What is the estimated volume (in cubic yards) that will be remediated	120
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 418331

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	418331
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	POTATO BABY ST 34N CTB [APP2129346593]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: <a href="mailto:brittany.Esparza@ConocoPhillips.com">brittany.Esparza@ConocoPhillips.com</a> Date: 01/08/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5  
  
Action 418331

QUESTIONS (continued)

Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:  229137
	Action Number:  418331
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 6

Action 418331

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 418331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	407407
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/04/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	1105

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	950
What was the total volume (cubic yards) remediated	120
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	na
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: <a href="mailto:brittany.Esparza@ConocoPhillips.com">brittany.Esparza@ConocoPhillips.com</a> Date: 01/08/2025

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 7  
  
Action 418331

QUESTIONS (continued)

Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:  229137
	Action Number:  418331
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 418331

**CONDITIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 418331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/17/2025
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	2/17/2025