Received by OCD: 2/2/2023 9:38:04 AM Form C-141 State of New Mexico
Page 6 Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

# Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)				
☐ Description of remediation activities					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.					
Printed Name:					
Signature: QQC Q	Date:				
email:	Telephone:				
OCD Only					
Received by: Jocelyn Harimon	Date:02/02/2023				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by: Robert Hamlet	Date: 6/1/2023				
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced				



### SITE INFORMATION

Closure Report Irwin 23-14 Federal Battery Incident ID: NRM2017854640 Eddy County, New Mexico Unit G Sec 23 T19S R30E 32.647348°, -103.939782°

Produced Water Release
Point of Release: Transfer Pump
Release Date: 06/20/2020

Volume Released: 112 Barrels of Produced Water Volume Recovered: 30 Barrels of Produced Water

# CARMONA RESOURCES

Prepared for: Cimarex Energy Co. of Colorado 600 N. Marienfeld Street Suite 600 Midland, Texas 79701

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

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



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2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

**6.0 CONCLUSION** 

# **FIGURES**

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# **APPENDICES**

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APPENDIX C INITIAL C-141 AND FINAL/NMOCD CORRESPONDENCE

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS

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



February 2, 2023

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

Re: Closure Report

Irwin 23-14 Federal Battery Cimarex Energy Co. of Colorado Site Location: Unit G, S23, T19S, R30E (Lat 32.647348°, Long -103.939782°) Eddy County, New Mexico

To whom it may concern:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Irwin 23-14 Federal Battery. The site is located at 32.647348°, -103.939782° within Unit G, S23, T19S, R30E, in Eddy County, New Mexico (Figures 1 and 2).

## 1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on June 20, 2020, caused by a failed seal on a transfer pump. It resulted in approximately one-hundred and twelve (112) barrels of produced water released, and thirty (30) barrels of produced water were recovered. The impacted area is located on the pad. Refer to Figure 3 for spill overview. The initial C-141 form is attached in Appendix C.

### 2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, one known water source is located within a 0.50-mile radius of the location. The nearest identified well is approximately 0.84 miles Southeast of the site in S25, T19S, R30E and was drilled in 2011. The well has a reported depth to groundwater of 65' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

# 3.0 NMAC Regulatory Criteria

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

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

# **4.0 Site Assessment Activities**

On November 29, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, four (4) sample points and four (4) horizontals sample points were advanced to depths ranging from the surface to 5' bgs inside the area of concern. See Figure 3

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



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. Refer to Table 1.

## 5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on January 9, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 and S-2 was excavated to a depth of 11.0' below the surface, and the area of S-3 was excavated to a depth of 7.0' below the surface to remove all the impacted soils. A total of nine (9) confirmation floor samples were collected (CS-1 through CS-9), and thirteen (13) sidewall samples (SW-1 through SW-13) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 760 cubic yards of material were excavated and transported offsite for proper disposal.

### 6.0 Conclusion

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

Sincerely,

Carmona Resources, LLC

Mike Carmona

**Environmental Manager** 

Ashton Thielke Sr. Project Manager

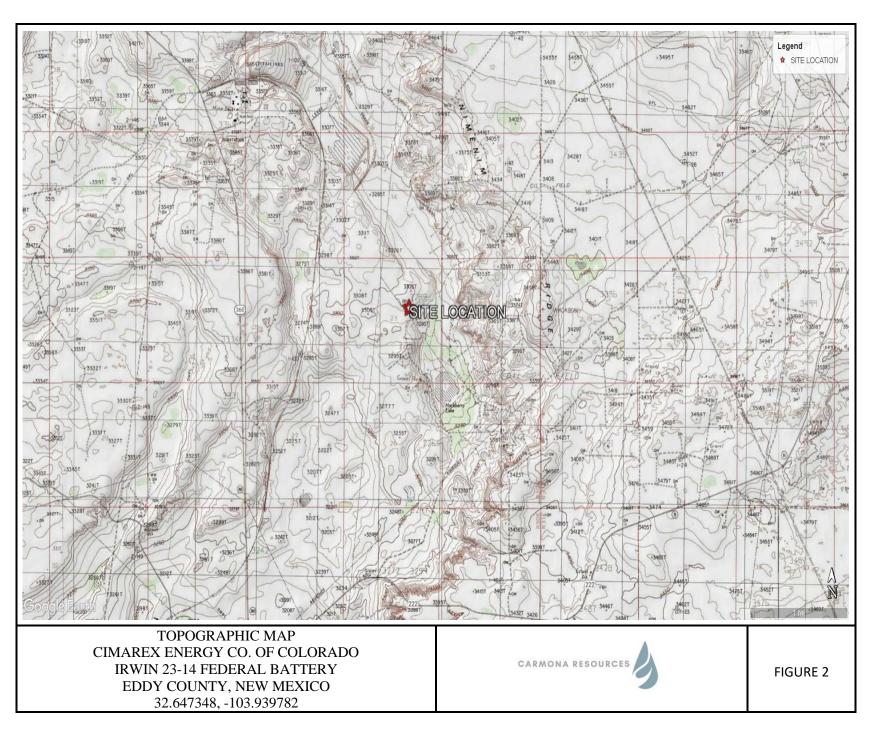
# **FIGURES**

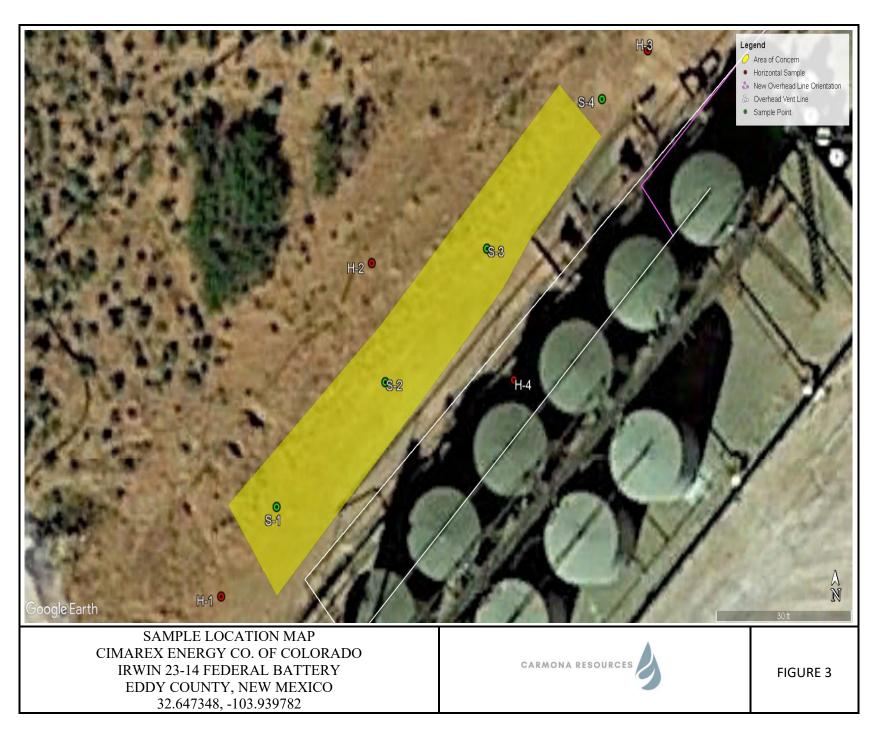


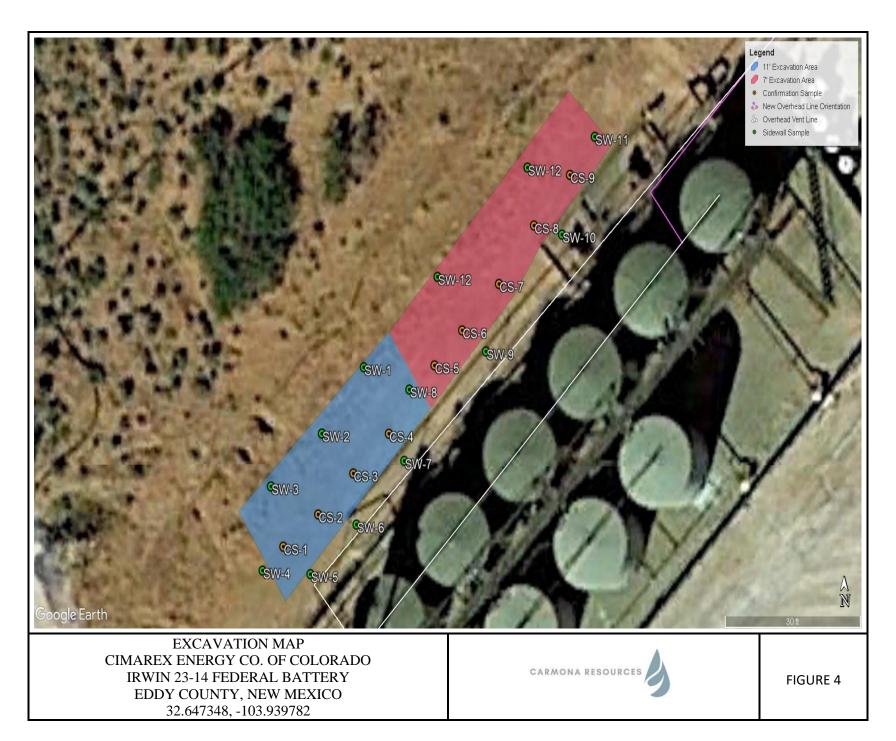
CIMAREX ENERGY CO. OF COLORADO IRWIN 23-14 FEDERAL BATTERY EDDY COUNTY, NEW MEXICO 32.647348, -103.939782



FIGURE 1







# **APPENDIX A**

Table 1
Cimarex
Irwin 23-14 Federal Battery
Eddy County, New Mexico

	2.1	<b>D</b> 11 (6)		ТРН	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	476
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	466
S-1	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,200
3-1	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,480
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,870
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,740
	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	26.6
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	170
S-2	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	336
3-2	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	520
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,410
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,910
	11/29/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,610
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	2,910
S-3	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,230
3-3	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,510
	"	4.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,270
	"	5.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,150
	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99
S-4	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	24.5
3-4	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<4.98
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.95
H-1	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	15.6
H-2	11/29/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	14.2
H-3	11/29/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	13.3
H-4	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11.9
Regulato	ry Criteria <sup>A</sup>					100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

 A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH- Total Petroleum Hydrocarbons

ft - feet

(S) - Sample Point

(H) - Horizontal Sample

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Table 2
Cimarex
Irwin 23-14 Federal Battery
Eddy County, New Mexico

Sample ID	Date	Donáh (fá)		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-2	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
CS-3	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-4	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-5	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
CS-6	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
CS-7	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
CS-8	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
CS-9	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-1	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-2	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
SW-3	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
SW-4	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
SW-6	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
SW-7	1/27/2023	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
SW-8	1/27/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-9	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-10	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
SW-11	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-12	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
SW-13	1/27/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	ry Criteria A					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**

# PHOTOGRAPHIC LOG

## Cimarex

# Photograph No. 1

Facility: Irwin 23-14 Federal Battery

County: Eddy County, New Mexico

**Description:** 

View Southwest, area of CS-1 through CS-9.



# Photograph No. 2

Facility: Irwin 23-14 Federal Battery

County: Eddy County, New Mexico

**Description:** 

View North, area of CS-1 through CS-9.



# Photograph No. 3

Facility: Irwin 23-14 Federal Battery

County: Eddy County, New Mexico

**Description:** 

View East, area of CS-5 through CS-9.





# PHOTOGRAPHIC LOG

# **Cimarex**

Photograph No. 4

Facility: Irwin 23-14 Federal Battery

County: Eddy County, New Mexico

**Description:** 

View South, area of CS-1 through CS-7.



# **APPENDIX C**

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2017854640
District RP	
Facility ID	
Application ID	

# **Release Notification**

			Resp	onsible	e Party	7	
Responsible Party Cimarex Energy Co. of Colorado					GRID 16	2683	
Contact Name Laci Luig					Contact Telephone (432) 571-7800		
		marex.com				(assigned by OCD)	
		600 N. Marienfe	eld Street, Ste.	600 Mid	lland, T	X 79701	
			Location				
Latitude 32	2.647348	3	(NAD 83 in dec	Loi	ngitude _	-103.9397	782
						_	
Site Name Irwin 23-14 Federal Battery					te Type B	Battery	
Date Release	Discovered	6/20/2020		A	PI# (if app	licable)	
Unit Letter	Section	Township	Range	Range County			]
G	23	19S	30E		Edd	у	
Surface Owne		Federal Tr	Nature and	l Volun			e volumes provided below)
Crude Oi	1	Volume Release			Volume Recovered (bbls)		
Produced	Water	Volume Release	d (bbls) 112 bbls	S	Volume Recovered (bbls) 30 bbls		
		Is the concentrate produced water >	ion of dissolved cl >10,000 mg/l?	hloride in	the	Yes N	lo .
Condensa	ate	Volume Release	d (bbls)		Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide uni			e units)		Volume/Weig	ght Recovered (provide units)	
Cause of Release The seal on a transfer pump went out leading to 112 bbls produced water being spilled. The containment overfilled causing the remainder to spill out onto the well pad. A vacuum truck recovered 30 bbls. We will clean containment and delineate the impacted soil to							

determine pathway forward.

Received by OCD: 2/2/2023 9:38:04 AM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	NRM2017854640
District RP	
Facility ID	
Application ID	

	Transpage 1	
Was this a major	If YES, for what reason(s) does the respon	isible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	The amount of release is more t	han 25 barrels.
19.13.29.7(A) INMAC:		
Yes No		
ICVEC ' 1'-4	1' - '- 4 4 OCD2 D1 - 2 T1	9 W/I 11 1 4 ( 1 '1 - 4 )9
From: Tell Montoya	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	OCD District 1 Spills, BLM NM CFO Spill	
By: Email		
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	**	the environment
	as been secured to protect human health and	
		ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred
		lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
		Exactions and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o		responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Laci L	.uig	Title: Engineer Tech.
Signature: QCC	. 0	Date: 6/22/2020 Telephone: (432) 571-7810
<sub>email:</sub> Iluig@cima	rex.com	Telephone: (432) 571-7810
Cilian:		refephone.
OCD Only		
OCD OHLY		
Received by: Ramona	Marcus	Date: 6/26/2020

Received by OCD: 2/2/2023 9:38:04 AM State of New Mexico
Page 3 Oil Conservation Division

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Incident ID	
District RP	
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Application ID	

# **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)				
Did this release impact groundwater or surface water?					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No				
Are the lateral extents of the release within 300 feet of a wetland?					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No				
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No				
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody					

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

Received by OCD: 2/2/2023 9:38:04 AM State of New Mexico
Page 4 Oil Conservation Division

	Page 21 of 12	25
Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	offications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	_ Title:
Signature: Qac' do	Date:
email:	Telephone:
OCD Only  Received by: Jocelyn Harimon	Date: <u>02/02/2023</u>

Received by OCD: 2/2/2023 9:38:04 AM Form C-141 State of New Mexico
Page 6 Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

# Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC									
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)									
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)									
☐ Description of remediation activities									
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in								
Printed Name:	Title:								
Signature: \( \lambda \alpha \cdot \)	Date:								
email:	Telephone:								
OCD Only									
Received by: Jocelyn Harimon	Date: <u>02/02/2023</u>								
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.								
Closure Approved by:	Date:								
Printed Name:	Title:								

## **Ashton Thielke**

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Sent: Monday, January 9, 2023 9:14 AM

**To:** Ashton Thielke

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

**Subject:** RE: [EXTERNAL] nRM2017854640 - Irwin 23-14 Federal Battery (6.20.2020) - Sample

Notification

**WARNING:** This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

## Ashton,

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

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http:// www.emnrd.nm.gov



From: Ashton Thielke <Ashton.Thielke@coterra.com>

Sent: Monday, January 9, 2023 7:27 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Laci Luig < Laci.Luig@coterra.com>

Subject: [EXTERNAL] nRM2017854640 - Irwin 23-14 Federal Battery (6.20.2020) - Sample Notification

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

This email serves as notification for confirmation sampling on the above mentioned site.

Sampling is scheduled to begin as early as January 12, 2022, weather and soil conditions permitting.

Incident ID: nRM2017854640

Coordinates: 32.647348, -103.939872

Thank you,



Ashton Thielke | PBU - Environmental Consultant

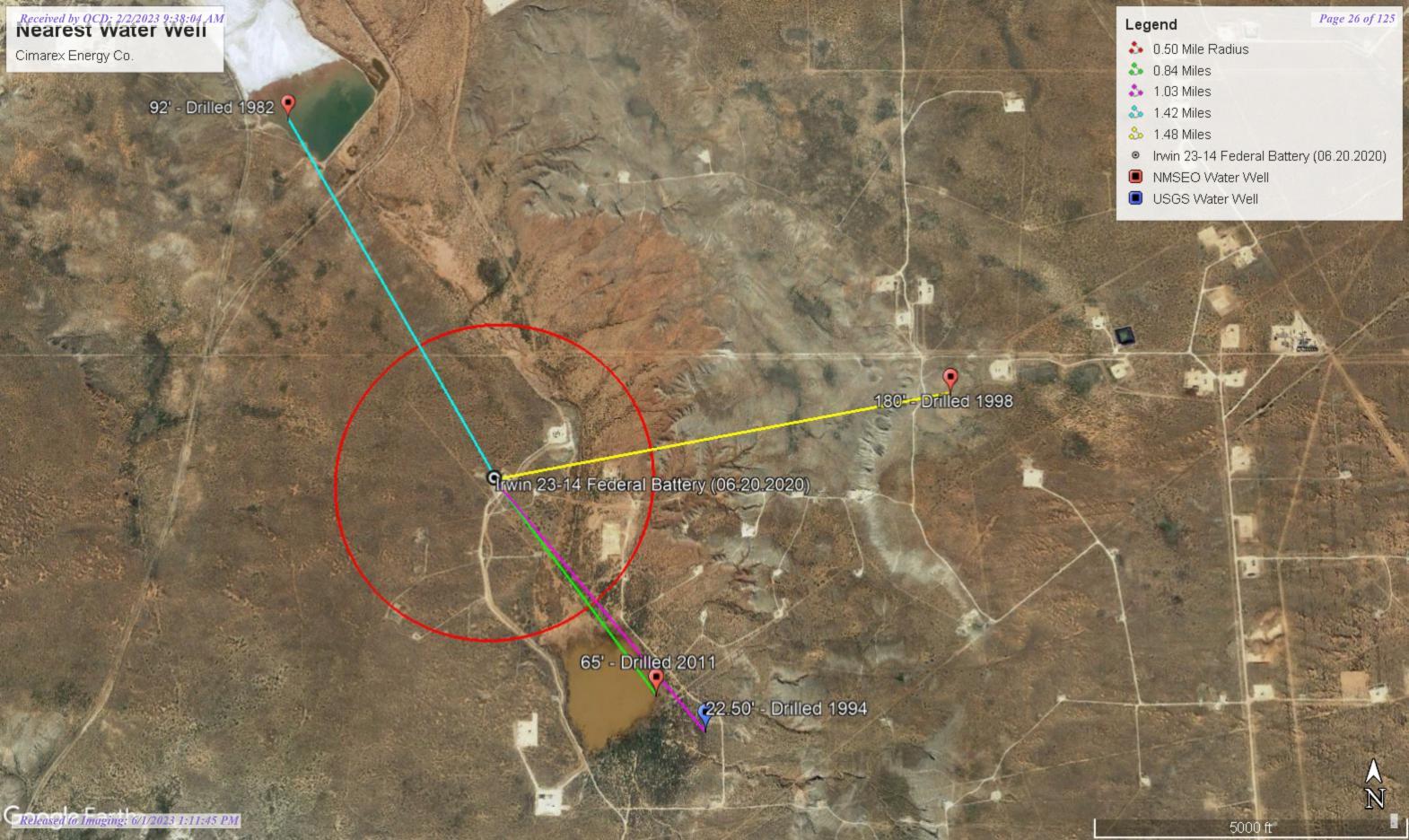
T: 432.813.5347 | M: 281.753.5659 | <u>ashton.thielke@coterra.com</u> | <u>www.coterra.com</u>

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

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

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# **APPENDIX D**







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

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

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

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	Х	Υ	Distance	-	-	Column
CP 00357 POD2		СР	ED	4	3	1	24	19S	30E	600265	3612627* 🌑	831	630		
CP 00357 POD1		СР	ED	4	4	1	24	19S	30E	600667	3612631* 🌑	1232	630		
CP 00722 POD2		СР	ED	2	1	1	25	19S	30E	600276	3611620* 🌕	1360	350	65	285
CP 00822 POD1		СР	LE		4	4	15	19S	30E	598148	3613516* 🌍	1530	90		
CP 00647 POD1	0	СР	ED	4	2	2	15	19S	30E	598235	3614621* 🎒	2274	200	92	108
CP 00873 POD1		СР	LE		1	1	19	19S	31E	601772	3613147* 🌍	2380	340	180	160
CP 00828 POD1		СР	LE		1	1	35	19S	30E	598585	3609900* 🌕	2916	90		

Average Depth to Water: 112 feet

> Minimum Depth: 65 feet

Maximum Depth: 180 feet

**Record Count: 7** 

**UTMNAD83 Radius Search (in meters):** 

Radius: 4000 Easting (X): 599435.66 Northing (Y): 3612689.35

\*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.



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

CP 00722 POD2 2 1 1 25 19S 30E

600276 3611620\*

Driller License: 1058 Driller Company: KEY'S DRILLING & PUMP SERVICE

**Driller Name:** KEY, CASEY

**Drill Start Date:** 04/26/2011 **Drill Finish Date:** 05/02/2011 **Plug Date:** 

Log File Date:05/17/2011PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:100 GPMCasing Size:6.00Depth Well:350 feetDepth Water:65 feet

Water Bearing Stratifications:TopBottomDescription6068Sandstone/Gravel/Conglomerate295345Sandstone/Gravel/Conglomerate

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11/9/22 8:37 AM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help



### Click to hideNews Bulletins

- Effective October 24, 2022 hyperlinks to legacy Current Condition pages will automatically redirect users to the corresponding Monitoring Location page. Please see the <u>Water Data For The Nation Blog</u> for full details, including how to navigate back to the legacy Current Condition page, if desired.
- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

Agency code = usgs site\_no list = • 323810103554201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 323810103554201 19S.30E.25.12133

Eddy County, New Mexico

Table of data

Tab-separated data

Latitude 32°38'10", Longitude 103°55'42" NAD27

Land-surface elevation 3,248 feet above NAVD88

The depth of the well is 42 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

# Output formats

<u>Graph of dat</u>	t <u>a</u>										
Reselect period											
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measo	
1968-04-03	3	D	62610		3227.09	NGVD29	1	Z			
1968-04-03	3	D	62611		3228.60	NAVD88	1	Z			
1968-04-03	3	D	72019	19.40			1	Z			
1971-02-01	L	D	62610		3226.96	NGVD29	1	Z			
1971-02-01	L	D	62611		3228.47	NAVD88	1	Z			
1971-02-01	L	D	72019	19.53			1	Z			
1976-12-10	)	D	62610		3225.44	NGVD29	1	Z			
1976-12-10	)	D	62611		3226.95	NAVD88	1	Z			
1976-12-10	)	D	72019	21.05			1	Z			
1977-11-18	3	D	62610		3223.76	NGVD29	1	Z			
1977-11-18	3	D	62611		3225.27	NAVD88	1	Z			
1977-11-18	3	D	72019	22.73			1	Z			

Date	Time ?		? Pai	rameter Ie	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum
1977-12-05	D	62610		3223.84	NGVD29	1	Z
1977-12-05	D	62611		3225.35	NAVD88	1	Z
.977-12-05	D	72019	22.65			1	Z
.977-12-16	D	62610		3223.51	NGVD29	1	Z
.977-12-16	D	62611		3225.02	NAVD88	1	Z
1977-12-16	D	72019	22.98			1	Z
1977-12-20	D	62610		3223.80	NGVD29	1	Z
1977-12-20	D	62611		3225.31	NAVD88	1	Z
1977-12-20	D	72019	22.69			1	Z
1978-01-18	D	62610		3223.12	NGVD29	1	Z
1978-01-18	D	62611		3224.63	NAVD88	1	Z
1978-01-18	D	72019	23.37			1	Z
1978-02-03	D	62610		3223.92	NGVD29	1	Z
1978-02-03	D	62611		3225.43	NAVD88	1	Z
1978-02-03	D	72019	22.57			1	Z
1978-02-23	D	62610		3223.99	NGVD29	1	Z
.978-02-23	D	62611		3225.50	NAVD88	1	Z
978-02-23	D	72019	22.50			1	Z
978-03-30	D	62610		3224.02	NGVD29	1	Z
.978-03-30	D	62611		3225.53	NAVD88	1	Z
978-03-30	D	72019	22.47			1	Z
978-05-04	D	62610		3223.84	NGVD29	1	Z
.978-05-04	D	62611		3225.35	NAVD88	1	Z
1978-05-04	D	72019	22.65			1	Z
1978-05-22	D	62610		3223.53	NGVD29	1	Z
1978-05-22	D	62611		3225.04	NAVD88	1	Z
1978-05-22	D	72019	22.96			1	Z
1978-06-08	D	62610		3223.60	NGVD29	1	Z
1978-06-08	D	62611		3225.11	NAVD88	1	Z
1978-06-08	D	72019	22.89			1	Z
978-07-17	D	62610		3224.47	NGVD29	1	Z
.978-07-17	D	62611		3225.98	NAVD88	1	Z
978-07-17	D	72019	22.02			1	Z
.978-08-17	D	62610		3223.46	NGVD29	1	Z
.978-08-17	D	62611		3224.97	NAVD88	1	Z
.978-08-17	D	72019	23.03			1	Z
.978-09-27	D	62610		3223.49	NGVD29	1	Z
.978-09-27	D	62611		3225.00	NAVD88	1	Z
1978-09-27	D	72019	23.00		-	1	Z
.978-12-14	D	62610		3224.82	NGVD29	1	Z
978-12-14	D	62611		3226.33	NAVD88	1	Z
978-12-14	D	72019	21.67		7-	1	Z
979-01-17	D	62610		3224.86	NGVD29	1	Z
979-01-17	D	62611		3226.37	NAVD88	1	Z
979-01-17	D	72019	21.63		30	1	Z
979-02-14	D	62610	22.00	3224.93	NGVD29	1	Z
979-02-14	D	62611		3226.44	NAVD88	1	Z
979-02-14	D	72019	21.56	2220111	.5.0250	1	Z
979-03-14	D	62610	_1.50	3224.90	NGVD29	1	Z
	D	02010		5221.50		-	Z

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	5
1979-03-14	D	72019	21.59		1	Z	
1983-01-18	D	62610	3233.72	NGVD29	1	Z	
1983-01-18	D	62611	3235.23	NAVD88	1	Z	
1983-01-18	D	72019	12.77		1	Z	
1994-03-18	D	62610	3223.99	NGVD29	1	S	
1994-03-18	D	62611	3225.50	NAVD88	1	S	
1994-03-18	D	72019	22.50		1	S	

## Explanation

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

Questions about sites/data? Feedback on this web site Automated retrievals Help **Data Tips Explanation of terms** Subscribe for system changes **News** 

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

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2022-11-09 10:40:35 EST

0.28 0.25 nadww02





# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q

Q64 Q16 Q4 Sec Tws Rng

X Y

CP 00647 POD1

4 2 2 15 19S 30E

598235 3614621\*

\* 🌍

**Driller License: 406** 

**Driller Company:** 

TIDWELL, CLYDE J.

Driller Name:

CLYDE J. TIDWELL

**Drill Finish Date:** 

02/18/1982 **Plug Date:** 

.....

Drill Start Date: Log File Date: 02/08/1982 02/22/1982

**PCW Rcv Date:** 

Source:

Shallow

Pump Type:

Pipe Discharge Size:

**Estimated Yield:** 

ld:

Casing Size:

Depth Well:

200 feet

**Depth Water:** 

92 feet

Water Bearing Stratifications:

Top Bottom Description

140

115

140 Other/Unknown

**Casing Perforations:** 

Top Bottom

115

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.

11/9/22 8:38 AM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

X

CP 00873 POD1

19S 31E

601772 3613147\*

**Driller License:** 421

**Driller Company:** GLENN'S WATER WELL SERVICE

**Driller Name:** GLENN, CLARK A."CORKY"

**Drill Start Date:** 01/02/1998 **Drill Finish Date:** 

01/05/1998 Plug Date:

Log File Date:

01/15/1998

**PCW Rcv Date:** 

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 50 GPM

**Casing Size:** 

6.62

Depth Well:

340 feet

**Depth Water:** 

180 feet

Water Bearing Stratifications:

**Top Bottom Description** 

240

320 Shallow Alluvium/Basin Fill

**Casing Perforations:** 

Top **Bottom** 

226

**Meter Number:** 805 Meter Make:

340

**MASTER** 

Meter Serial Number: 1748543 **Number of Dials:** 

**Meter Multiplier: Meter Type:** 

100.0000

**Unit of Measure:** 

Gallons

**Return Flow Percent:** 

Diversion

**Usage Multiplier:** 

**Reading Frequency:** 

Monthly

## Meter Readings (in Acre-Feet)

Read Date	Year I	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/1999	1999	37400	A	fm		0
01/15/1999	1999	43541	A	fm		1.885
04/27/2000	2000	14849	R	jw	Meter Rollover	298.083
07/31/2000	2000	24399	A	jw		2.931
**YTD Met	er Amount	s: Year	A	mount	•	
		1999		1.885		
		2000	3	01.014		

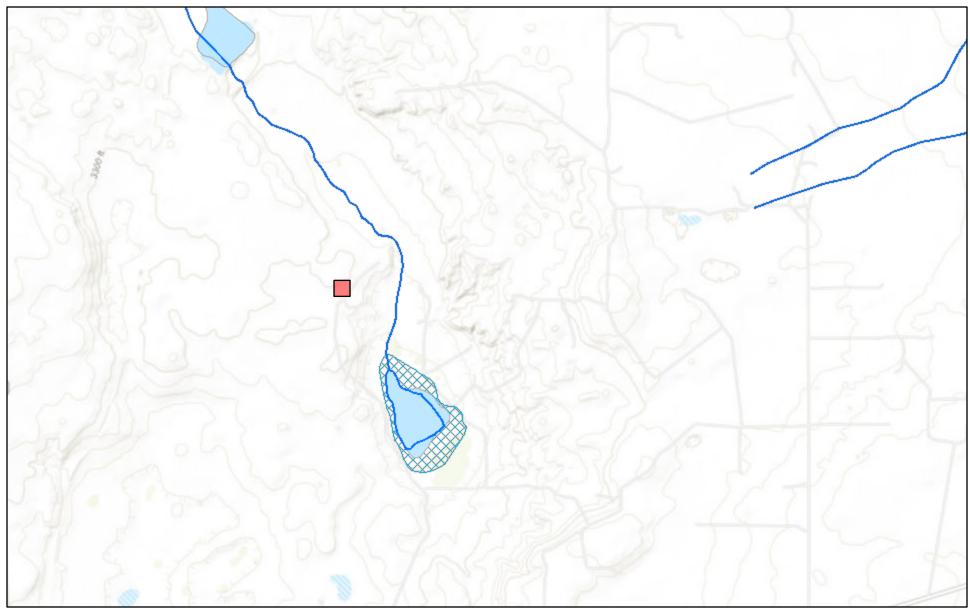
<sup>\*</sup>UTM location was derived from PLSS - see Help

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.

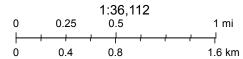
11/9/22 8:39 AM

POINT OF DIVERSION SUMMARY

# New Mexico NFHL Data



November 9, 2022



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

# **APPENDIX E**

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ashton Thielke Carmona Resources 310 W Wall St Ste 415 Midland, Texas 79701

Generated 12/12/2022 2:33:08 PM

# **JOB DESCRIPTION**

Irwin 23-14 Federal Battery SDG NUMBER Eddy Co, NM

# **JOB NUMBER**

880-22037-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

# **Job Notes**

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

# **Authorization**

Generated 12/12/2022 2:33:08 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Carmona Resources Project/Site: Irwin 23-14 Federal Battery Laboratory Job ID: 880-22037-1 SDG: Eddy Co, NM

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2

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14

#### **Definitions/Glossary**

Client: Carmona Resources Job ID: 880-22037-1 Project/Site: Irwin 23-14 Federal Battery

SDG: Eddy Co, NM

#### **Qualifiers**

GC	: V	O	Δ
_	•	_	٠.

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

#### **GC Semi VOA**

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

#### HPLC/IC

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

#### **Glossary**

EDL

QC

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)						

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)

Estimated Detection Limit (Dioxin)

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 **Practical Quantitation Limit** PQL **PRES** Presumptive

**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

Toxicity Equivalent Factor (Dioxin) TEF **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

Job ID: 880-22037-1

**Laboratory: Eurofins Midland** 

Narrative

Job Narrative 880-22037-1

#### Receipt

The samples were received on 11/30/2022 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 1.6°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-1') (880-22037-1), H-2 (0-1') (880-22037-2), H-3 (0-1') (880-22037-3), H-4 (0-1') (880-22037-4), S-1 (0-1') (880-22037-5), S-1 (1.5') (880-22037-6), S-1 (2') (880-22037-7), S-1 (3') (880-22037-8), S-1 (4') (880-22037-9), S-1 (5') (880-22037-10), S-2 (0-1') (880-22037-11), S-2 (1.5') (880-22037-12), S-2 (2') (880-22037-13), S-2 (3') (880-22037-14), S-2 (4') (880-22037-15), S-2 (5') (880-22037-16), S-3 (0-1') (880-22037-17), S-3 (1.5') (880-22037-18), S-3 (2') (880-22037-19), S-3 (3') (880-22037-20), S-3 (4') (880-22037-21), S-3 (5') (880-22037-22), S-4 (0-1') (880-22037-23), S-4 (1.5') (880-22037-24), S-4 (2') (880-22037-25) and S-4 (3') (880-22037-26).

#### **GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40812 and analytical batch 880-41352 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-41354 and analytical batch 880-41352 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-22036-A-1-D MS) and (880-22036-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-40812 and analytical batch 880-41352 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22036-A-1-F). 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: S-1 (5') (880-22037-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-2 (0-1') (880-22037-11) and S-2 (1.5') (880-22037-12). 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: S-2 (5') (880-22037-16). 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: S-4 (1.5') (880-22037-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40824 and analytical batch 880-41419 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (880-22110-A-1-D) and (880-22110-A-1-E

Δ

5

6

8

10

4.0

13

14

#### Case Narrative

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

#### Job ID: 880-22037-1 (Continued)

#### **Laboratory: Eurofins Midland (Continued)**

MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: S-3 (4') (880-22037-21) and S-3 (5') (880-22037-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: S-4 (1.5') (880-22037-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: S-4 (2') (880-22037-25) and S-4 (3') (880-22037-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: H-1 (0-1') (880-22037-1), H-2 (0-1') (880-22037-2), H-3 (0-1') (880-22037-3), H-4 (0-1') (880-22037-4), S-1 (0-1') (880-22037-5), S-1 (1.5') (880-22037-6), S-1 (2') (880-22037-7), S-1 (3') (880-22037-8), S-1 (4') (880-22037-9), S-1 (5') (880-22037-10), S-2 (0-1') (880-22037-11), S-2 (1.5') (880-22037-12), S-2 (2') (880-22037-13), S-2 (3') (880-22037-14), S-2 (4') (880-22037-15), S-2 (5') (880-22037-16), S-3 (0-1') (880-22037-17), S-3 (1.5') (880-22037-18), S-3 (2') (880-22037-19), S-3 (3') (880-22037-20), (LCS 880-41158/2-A), (LCSD 880-41158/3-A) and (MB 880-41158/1-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: The matrix spike (MS) recoveries for preparation batch 880-40727 and analytical batch 880-40840 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: S-3 (4') (880-22037-21), S-3 (5') (880-22037-22) and S-4 (0-1') (880-22037-23).

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

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

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

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 22:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 22:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 22:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/08/22 22:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 22:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/08/22 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/01/22 15:15	12/08/22 22:42	1
1,4-Difluorobenzene (Surr)	81		70 - 130				12/01/22 15:15	12/08/22 22:42	1
Method: TAL SOP Total BTEX									
·		culation Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX		Qualifier		MDL	Unit mg/Kg	<u>D</u>		Analyzed 12/09/22 13:21	Dil Fac
Method: TAL SOP Total BTEX Analyte	Result <0.00402	Qualifier U	RL 0.00402	MDL		<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	Result <0.00402	Qualifier U	RL 0.00402	MDL	mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	Result <0.00402	Qualifier U ics (DRO) ( Qualifier	RL 0.00402		mg/Kg		Prepared	12/09/22 13:21	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	Result <0.00402  Pesel Range Organ Result <50.0	Qualifier U ics (DRO) ( Qualifier U	RL 0.00402  GC) RL 50.0		mg/Kg		Prepared	12/09/22 13:21  Analyzed	1 Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	esel Range Organ Result <50.0  Diesel Range Organ	Qualifier U ics (DRO) ( Qualifier U	RL 0.00402  GC) RL 50.0	MDL	mg/Kg		Prepared	12/09/22 13:21  Analyzed	1 Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	esel Range Organ Result <50.0  Diesel Range Organ	Qualifier U ics (DRO) ( Qualifier U inics (DRO) Qualifier	RL 0.00402  GC) RL 50.0  (GC)	MDL	mg/Kg  Unit mg/Kg		Prepared Prepared	12/09/22 13:21  Analyzed  12/07/22 10:55	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte	esel Range Organ Result <50.0 Diesel Range Orga Result	Qualifier U ics (DRO) ( Qualifier U inics (DRO) Qualifier	RL 0.00402  GC)  RL 50.0  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit		Prepared Prepared	12/09/22 13:21  Analyzed  12/07/22 10:55  Analyzed	Dil Fac Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics	esel Range Organ Result <50.0 Diesel Range Orga Result	Qualifier U ics (DRO) ( Qualifier U unics (DRO) Qualifier U	RL 0.00402  GC)  RL 50.0  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit		Prepared Prepared	12/09/22 13:21  Analyzed  12/07/22 10:55  Analyzed	Dil Fac Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	12/06/22 11:28	12/06/22 21:24	1
o-Terphenyl	156	S1+	70 - 130	12/06/22 11:28	12/06/22 21:24	1

50.0

mg/Kg

12/06/22 11:28

12/06/22 21:24

<50.0 U

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.99 Chloride 15.6 mg/Kg 12/02/22 17:19

Client Sample ID: H-2 (0-1') Lab Sample ID: 880-22037-2 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

Date Received: 11/30/22 09:09

Oll Range Organics (Over C28-C36)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/08/22 23:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/08/22 23:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/08/22 23:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/08/22 23:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/08/22 23:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/08/22 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				12/01/22 15:15	12/08/22 23:03	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/01/22 15:15	12/08/22 23:03	1

Client: Carmona Resources

Date Received: 11/30/22 09:09

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Client Sample ID: H-2 (0-1') Lab Sample ID: 880-22037-2 Date Collected: 11/29/22 00:00

Matrix: Solid

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			12/09/22 13:21	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (	GC)					

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/K	g		12/07/22 10:55	1
_								

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/06/22 22:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/06/22 22:28	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/06/22 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130	·	70 - 130				12/06/22 11:28	12/06/22 22:28	1
o-Terphenyl	152	S1+	70 - 130				12/06/22 11:28	12/06/22 22:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	14.2		4.95		mg/Kg			12/02/22 17:43	1

Client Sample ID: H-3 (0-1') Lab Sample ID: 880-22037-3 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

<b>Date</b>	Rece	ived:	11/30/22	2 09:09
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Released to Imaging: 6/1/2023 1:11:45 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/01/22 15:15	12/08/22 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				12/01/22 15:15	12/08/22 23:23	1
			70 - 130				12/01/22 15:15	12/08/22 23:23	
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	12/01/22 15:15 Prepared	Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00401	<b>Qualifier</b> U	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00401 sel Range Organ	Qualifier U	RL 0.00401		mg/Kg		Prepared	Analyzed 12/09/22 13:21	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00401 sel Range Organ Result	Qualifier U ics (DRO) (Qualifier	RL 0.00401		mg/Kg	<u>D</u>		Analyzed 12/09/22 13:21 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc  Result  <0.00401  sel Range Organ  Result  <49.9	Qualifier U ics (DRO) ( Qualifier U	RL 0.00401 GC) RL 49.9		mg/Kg		Prepared	Analyzed 12/09/22 13:21	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00401  sel Range Organ Result <49.9	Qualifier U ics (DRO) ( Qualifier U	RL 0.00401 GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared	Analyzed 12/09/22 13:21 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - Die	- Total BTEX Calc Result <0.00401  sel Range Organ Result <49.9	Qualifier U ics (DRO) ( Qualifier U nics (DRO) Qualifier	RL 0.00401  GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 12/09/22 13:21  Analyzed 12/07/22 10:55	Dil Fac

Job ID: 880-22037-1

SDG: Eddy Co, NM

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

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-3

Analyzed

D

Prepared

Matrix: Solid

Dil Fac

Method: SW846 8015B NM - Di	esel Range Organics (DRO) (GO	C) (Continued	i <b>)</b>	
Analyte	Result Qualifier	RL	MDL Unit	

Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	12/06/22 11:28	12/06/22 22:50	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130		12/06/22 11:28	12/06/22 22:50	1
o-Terphenyl	144	S1+	70 - 130		12/06/22 11:28	12/06/22 22:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	13.3		4.97	mg/Kg			12/02/22 17:52	1

Client Sample ID: H-4 (0-1')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-4

**Matrix: Solid** 

Method: SW846 8021B - Vo	latile Organic Comp	ounds (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/08/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/01/22 15:15	12/08/22 23:44	1

	,			· ····· <b>,</b> – · ··	
4-Bromofluorobenzene (Surr)	120	70 - 130	12/01/22 15:15	12/08/22 23:44	1
1,4-Difluorobenzene (Surr)	95	70 - 130	12/01/22 15:15	12/08/22 23:44	1

Welliou. TAL SOP Total BTEX - To	tal BIEX Call	Julation					Prepared Analyzed			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/22 13:21	1	

	Method: SW846 8015 NM - Diesel Range	<b>Organ</b>	ics (DRO) (G0	C)					
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<50.0	U	50.0	mg/Kg			12/07/22 10:55	1

A 1.4	•	nics (DRO)	` '			_			5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:12	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:12	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				12/06/22 11:28	12/06/22 23:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	11.9		5.05		mg/Kg			12/02/22 18:00	1

70 - 130

172 S1+

**Eurofins Midland** 

12/06/22 11:28 12/06/22 23:12

o-Terphenyl

Client: Carmona Resources

Date Received: 11/30/22 09:09

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

Client Sample ID: S-1 (0-1') Lab Sample ID: 880-22037-5 Date Collected: 11/29/22 00:00

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 00:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				12/01/22 15:15	12/09/22 00:04	1
1,4-Difluorobenzene (Surr)	70		70 - 130				12/01/22 15:15	12/09/22 00:04	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 13:21	1
Method: SW846 8015 NM - Diese					9/1.19				
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)	MDL		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <50.0	ics (DRO) (Gualifier	GC)  RL  50.0	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	Range Organ Result <50.0 sel Range Organ	ics (DRO) (Gualifier	GC)  RL  50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Range Organ Result <50.0 sel Range Organ	ics (DRO) (Qualifier Unics (DRO) Qualifier	GC)  RL  50.0		Unit mg/Kg		<u> </u>	Analyzed 12/07/22 10:55	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL  50.0  (GC)  RL  50.0		Unit mg/Kg  Unit mg/Kg		Prepared 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/06/22 23:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Range Organ Result <50.0 sel Range Orga Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL  50.0  (GC)  RL		Unit mg/Kg		Prepared	Analyzed 12/07/22 10:55 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL  50.0  (GC)  RL  50.0		Unit mg/Kg  Unit mg/Kg		Prepared 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/06/22 23:33	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL  50.0  (GC)  RL  50.0  50.0  50.0		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/06/22 11:28 12/06/22 11:28 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/06/22 23:33 12/06/22 23:33	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	sel Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 50.0  GC)  RL 50.0  50.0  50.0  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/06/22 11:28 12/06/22 11:28 12/06/22 11:28 Prepared	Analyzed 12/07/22 10:55  Analyzed 12/06/22 23:33 12/06/22 23:33 Analyzed	Dil Fac  1  1  Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Range Organ   Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL  50.0  (GC)  RL  50.0  50.0  50.0		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/06/22 11:28 12/06/22 11:28 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/06/22 23:33 12/06/22 23:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Range Organ   Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+	GC)  RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/06/22 11:28 12/06/22 11:28 12/06/22 11:28 Prepared 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/06/22 23:33 12/06/22 23:33  Analyzed 12/06/22 23:33	1 Dil Fac 1 1 1 Dil Fac 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Range Organ   Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+	GC)  RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 12/06/22 11:28 12/06/22 11:28 12/06/22 11:28 Prepared 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/06/22 23:33 12/06/22 23:33  Analyzed 12/06/22 23:33	Dil Fac  1  Dil Fac  1  1  Dil Fac  1  Dil Fac  1  Dil Fac

Client Sample ID: S-1 (1.5') Lab Sample ID: 880-22037-6 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

Date Received: 11/30/22 09:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 00:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 00:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				12/01/22 15:15	12/09/22 00:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/01/22 15:15	12/09/22 00:25	1

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Client Sample ID: S-1 (1.5')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-6

12/02/22 18:32

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 13:21	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/22 10:55	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:55	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/06/22 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				12/06/22 11:28	12/06/22 23:55	1
o-Terphenyl	158	S1+	70 - 130				12/06/22 11:28	12/06/22 23:55	1
Method: MCAWW 300.0 - Anions,	Ion Chromata	aranhy S	olublo						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-1 (2') Lab Sample ID: 880-22037-7 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

5.00

mg/Kg

Date Received: 11/30/22 09:09

Chloride

466

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/01/22 15:15	12/09/22 00:45	1
1,4-Difluorobenzene (Surr)	81		70 - 130				12/01/22 15:15	12/09/22 00:45	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			12/09/22 13:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.8	U	49.8		mg/Kg			12/07/22 10:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		12/06/22 11:28	12/07/22 00:17	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		12/06/22 11:28	12/07/22 00:17	1	
C10-C28)										

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

Client Sample ID: S-1 (2')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-7

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/22 11:28	12/07/22 00:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				12/06/22 11:28	12/07/22 00:17	1
o-Terphenyl	155	S1+	70 - 130				12/06/22 11:28	12/07/22 00:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1200		25.0		mg/Kg			12/02/22 18:40	5

Client Sample ID: S-1 (3')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-8

**Matrix: Solid** 

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				12/01/22 15:15	12/09/22 01:06	1
1 / Diffuorobenzene (Surr)	07		70 120				12/01/22 15:15	12/00/22 01:06	1

Г., .,,,, -					
1,4-Difluorobenzene (Surr)	97	70 - 130	12/01/22 15:15	12/09/22 01:06	1
4-Bromofluorobenzene (Surr)	127	70 - 130	12/01/22 15:15	12/09/22 01:06	1

ı	metriou.	IAL OOI	TOTAL DIEX	TOTAL DIEX	Odiculation
ı					

	Analyte	Result	Qualifier	KL	MDL Unit	ט	Prepared	Analyzed	DII Fac
l	Total BTEX	<0.00402	U	0.00402	mg/K			12/09/22 13:21	1

Method: SW846 8015 NM - Diesel	Range (	Organics	(DRO) (0	3C)
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Analyte	Result Q	<b>ualifier</b>	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	1	49.9	mg/Kg			12/07/22 10:55	1

ı	Method:	SW846	8015B	NM -	<ul> <li>Diesel</li> </ul>	Range	Org	ganics	(DRO	) (	GC	)
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Method. 344040 00 13D MM - Dies	sei italige Orga	ilica (Dito)	(00)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/07/22 00:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/07/22 00:39	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/07/22 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125	70 - 130	12/06/22 11:28	12/07/22 00:39	1
o-Terphenyl	148 S1+	70 - 130	12/06/22 11:28	12/07/22 00:39	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		25.0		mg/Kg			12/02/22 18:48	5

Client: Carmona Resources

Client Sample ID: S-1 (4')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Project/Site: Irwin 23-14 Federal Battery

Prepared

12/06/22 11:28

Analyzed

12/07/22 01:00

12/06/22 11:28 12/07/22 01:00

Lab Sample ID: 880-22037-9

Matrix: Solid

Job ID: 880-22037-1

SDG: Eddy Co, NM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 01:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 01:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 01:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/01/22 15:15	12/09/22 01:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 01:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/01/22 15:15	12/09/22 01:27	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/01/22 15:15	12/09/22 01:27	1
1,4-Difluorobenzene (Surr)	90		70 - 130				12/01/22 15:15	12/09/22 01:27	1
Method: TAL SOP Total BTEX - Analyte		culation Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
			DI	MDI	Unit	n	Propared	Analyzod	Dil Eac
		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/09/22 13:21	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Dies	Result <0.00401	Qualifier U	0.00401 GC)		mg/Kg			12/09/22 13:21	1
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	Result  <0.00401 sel Range Organ Result	Qualifier U ics (DRO) (	0.00401  GC)  RL	MDL	mg/Kg	<u>D</u>	Prepared Prepared	12/09/22 13:21  Analyzed	
Analyte Total BTEX Method: SW846 8015 NM - Dies	Result <0.00401	Qualifier U ics (DRO) (	0.00401 GC)		mg/Kg			12/09/22 13:21	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	Result <0.00401  sel Range Organ Result <50.0	Qualifier U ics (DRO) ( Qualifier U	0.00401  GC)  RL  50.0		mg/Kg			12/09/22 13:21  Analyzed	1
Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	Result <0.00401  sel Range Organ Result <50.0 esel Range Organ	Qualifier U ics (DRO) ( Qualifier U	0.00401  GC)  RL  50.0	MDL	mg/Kg			12/09/22 13:21  Analyzed	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <0.00401  sel Range Organ Result <50.0 esel Range Organ	Qualifier U ics (DRO) ( Qualifier U nics (DRO) Qualifier	0.00401  GC)  RL  50.0  (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared	12/09/22 13:21  Analyzed  12/07/22 10:55	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte	Result <0.00401  sel Range Organ Result <50.0 esel Range Orga Result	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	0.00401  GC)  RL  50.0  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	12/09/22 13:21  Analyzed  12/07/22 10:55  Analyzed	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result <0.00401  sel Range Organ Result <50.0  esel Range Orga Result <50.0	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	0.00401  GC)  RL  50.0  (GC)  RL  50.0	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg	<u>D</u>	Prepared  Prepared  12/06/22 11:28	12/09/22 13:21  Analyzed  12/07/22 10:55  Analyzed  12/07/22 01:00	Dil Fac

Method: MCAWW	300.0 - Anions, Ion Chromato	ography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2870		24.8		mg/Kg			12/02/22 18:56	5

Limits

70 - 130

70 - 130

%Recovery Qualifier

151 S1+

128

Client Sample ID: S-1 (5') Lab Sample ID: 880-22037-10 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

Date Received: 11/30/22 09:09

Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 01:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 01:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 01:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 01:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 01:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130				12/01/22 15:15	12/09/22 01:47	1
1,4-Difluorobenzene (Surr)	72		70 - 130				12/01/22 15:15	12/09/22 01:47	1

**Eurofins Midland** 

Dil Fac

Client: Carmona Resources

Client Sample ID: S-1 (5')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Lab Sample ID: 880-22037-10

Matrix: Solid

_			
Method: TAL SOP Tot	al BTEX - Total BTEX Calculation		
Analyte	Result Qualifier	RL	MDI

motification in the control of the c	Total Billy Galoc	alution.						
Analyte	Result (	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/09/22 13:21	1

Method: SW846 8015 NM - Diesel	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			12/07/22 10:55	1			

Total TPH -	<50.0	U	50.0	mg/Kg			12/07/22 10:55	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/06/22 11:28	12/07/22 01:22	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/06/22 11:28	12/07/22 01:22	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:28	12/07/22 01:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			12/06/22 11:28	12/07/22 01:22	1
o-Terphenyl	159	S1+	70 - 130			12/06/22 11:28	12/07/22 01:22	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3740		24.8		mg/Kg			12/02/22 19:05	5

Client Sample ID: S-2 (0-1') Lab Sample ID: 880-22037-11 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

Date Received: 11/30/22 09:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/01/22 15:15	12/09/22 03:09	1
, ,									
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX		S1-	70 - 130				12/01/22 15:15	12/09/22 03:09	1
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	culation Qualifier	RL	MDL	Unit	<u>D</u>	12/01/22 15:15  Prepared	Analyzed	
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation Qualifier		MDL	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00398	<b>Qualifier</b>	RL 0.00398	MDL		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398 esel Range Organ	<b>Qualifier</b>	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg		Prepared	Analyzed 12/09/22 13:21	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0	Qualifier U  ics (DRO) ( Qualifier U	RL 0.00398		mg/Kg Unit		Prepared	Analyzed 12/09/22 13:21 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 iesel Range Organ	Qualifier U  ics (DRO) ( Qualifier U	RL 0.00398	MDL	mg/Kg Unit		Prepared	Analyzed 12/09/22 13:21 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 iesel Range Organ	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier Qualifier	RL 0.00398  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 12/09/22 13:21  Analyzed 12/07/22 10:55	Dil Fac

Job ID: 880-22037-1

SDG: Eddy Co, NM

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Lab Sample ID: 880-22037-11

Matrix: Solid

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Client Sample ID: S-2 (0-1')

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

<0.00402 U

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:28	12/07/22 02:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			12/06/22 11:28	12/07/22 02:06	1
o-Terphenvl	143	S1+	70 - 130			12/06/22 11:28	12/07/22 02:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.6		5.00		mg/Kg			12/02/22 19:13	1

Client Sample ID: S-2 (1.5')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Total BTEX

Lab Sample ID: 880-22037-12

12/09/22 13:21

**Matrix: Solid** 

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	42	S1-	70 - 130				12/01/22 15:15	12/09/22 03:30	1
1 4-Difluorobenzene (Surr)	84		70 - 130				12/01/22 15:15	12/09/22 03:30	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Total BTE	X Calculation						
1,4-Difluorobenzene (Surr)	84	70 - 130		•	12/01/22 15:15	12/09/22 03:30	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	ma/Ka			12/07/22 10:55		

0.00402

mg/Kg

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 02:28	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 02:28	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				12/06/22 11:28	12/07/22 02:28	1
o-Terphenyl	152	S1+	70 - 130				12/06/22 11:28	12/07/22 02:28	1

Method: MCAWW 300.0 - Anions, Ion (	Chromato	ography - Solu	ıble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		4.97		mg/Kg			12/02/22 19:37	1

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Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

SDG: Eddy Co, NM

Job ID: 880-22037-1

Client Sample ID: S-2 (2')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:15	12/09/22 03:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:15	12/09/22 03:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:15	12/09/22 03:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/01/22 15:15	12/09/22 03:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:15	12/09/22 03:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/01/22 15:15	12/09/22 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				12/01/22 15:15	12/09/22 03:51	1
1,4-Difluorobenzene (Surr)	85		70 - 130				12/01/22 15:15	12/09/22 03:51	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/09/22 13:21	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) ((	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/22 10:55	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		12/06/22 11:28	12/07/22 02:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 02:49	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 02:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				12/06/22 11:28	12/07/22 02:49	1
o-Terphenyl	137	S1+	70 - 130				12/06/22 11:28	12/07/22 02:49	1
Method: MCAWW 300.0 - Anions	. Ion Chromato	ography - Se	oluble						

Client Sample ID: S-2 (3') Lab Sample ID: 880-22037-14 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

336

4.99

mg/Kg

Date Received: 11/30/22 09:09

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 04:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 04:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				12/01/22 15:15	12/09/22 04:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/01/22 15:15	12/09/22 04:11	1

**Eurofins Midland** 

12/02/22 19:45

Client: Carmona Resources

Date Received: 11/30/22 09:09

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

12/02/22 20:10

SDG: Eddy Co, NM

Client Sample ID: S-2 (3') Lab Sample ID: 880-22037-14 Date Collected: 11/29/22 00:00

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 13:21	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/22 10:55	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:11	•
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				12/06/22 11:28	12/07/22 03:11	
o-Terphenyl	139	S1+	70 - 130				12/06/22 11:28	12/07/22 03:11	1
Method: MCAWW 300.0 - Anions,	Ion Chromato	ography - Se	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-2 (4') Lab Sample ID: 880-22037-15 **Matrix: Solid** 

mg/Kg

5.04

520

Date Collected: 11/29/22 00:00

Chloride

Date Received: 11/30/22 09:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
Toluene	< 0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				12/01/22 15:15	12/09/22 04:32	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte		culation Qualifier	70 <sub>-</sub> 130 RL	MDL	Unit	D	12/01/22 15:15  Prepared	12/09/22 04:32 Analyzed	
		culation	70 - 130				12/01/22 15:15	12/09/22 04:32	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398	<b>Qualifier</b> U	RL 0.00398	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ	<b>Qualifier</b> U	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg		Prepared	Analyzed 12/09/22 13:21	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0	Qualifier U ics (DRO) ( Qualifier U	RL 0.00398 ————————————————————————————————————		mg/Kg		Prepared	Analyzed 12/09/22 13:21 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 diesel Range Orga	Qualifier U ics (DRO) ( Qualifier U	RL 0.00398 ————————————————————————————————————	MDL	mg/Kg		Prepared	Analyzed 12/09/22 13:21 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 diesel Range Orga	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00398  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 12/09/22 13:21  Analyzed 12/07/22 10:55	Dil Fac

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Client Sample ID: S-2 (4')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:28	12/07/22 03:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			12/06/22 11:28	12/07/22 03:33	1
o-Terphenyl	160	S1+	70 - 130			12/06/22 11:28	12/07/22 03:33	1

Method: MCAWW 300.0 - Anions,	Ion Chromatog	graphy - So	oluble						
Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2410		24.8		mg/Kg			12/02/22 20:18	5

Client Sample ID: S-2 (5')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-16

**Matrix: Solid** 

Organic Comp	ounds (GC)	)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 04:52	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
43	S1-	70 - 130				12/01/22 15:15	12/09/22 04:52	1
86		70 - 130				12/01/22 15:15	12/09/22 04:52	1
	Result   <0.00200   <0.00200   <0.00200   <0.00399   <0.00399   <0.00399   <0.00399   <4.000200   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4.000399   <4	Result   Qualifier	<0.00200	Result         Qualifier         RL         MDL           <0.00200	Result         Qualifier         RL         MDL         Unit           <0.00200	Result         Qualifier         RL         MDL         Unit         D           <0.00200	Result         Qualifier         RL         MDL         Unit         D         Prepared           <0.00200	Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           <0.00200

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		ma/Ka				12/09/22 13:21	1

Method: SW846 8015 NM -	Diesel Range	Organics (DF	२O) (GC)
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	П	50.0	ma/Ka			12/07/22 10:55		

michiod. Offoro ou lob lim - bics	oci italige Orge	iiiics (Dito)	(33)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:54	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:54	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				12/06/22 11:28	12/07/22 03:54	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble
moment mer mer court ramene, ion can entate graphy

165 S1+

		3 - 1- 3							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3910		24.8		mg/Kg			12/02/22 20:26	5

70 - 130

**Eurofins Midland** 

o-Terphenyl

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

Lab Sample ID: 880-22037-17

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

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 05:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 05:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 05:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 05:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:15	12/09/22 05:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:15	12/09/22 05:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				12/01/22 15:15	12/09/22 05:13	1
1,4-Difluorobenzene (Surr)	83		70 - 130				12/01/22 15:15	12/09/22 05:13	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
T DTEV	<0.00402	П	0.00402		mg/Kg			12/09/22 13:21	
Total BTEX  Method: SW846 8015 NM - Diese					g/. tg			,.,.	
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (	GC)	MDL		D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <49.9	ics (DRO) ( Qualifier	GC) RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	ics (DRO) ( Qualifier	GC) RL 49.9	MDL	Unit mg/Kg	D	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	ics (DRO) (Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		Unit mg/Kg			Analyzed 12/07/22 10:55	1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <a href="#">&lt;49.9</a> <a href="#">sel Range Orga</a> Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL 49.9  (GC) RL		Unit mg/Kg		Prepared	Analyzed 12/07/22 10:55 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <a href="#">Result</a> <a href="#">Result</a> <a href="#">Result</a> <a href="#">&lt;49.9</a>	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL 49.9  (GC)  RL 49.9		Unit mg/Kg  Unit mg/Kg		Prepared 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/07/22 04:16	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL 49.9  (GC)  RL 49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/06/22 11:28 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/07/22 04:16 12/07/22 04:16	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result 49.9 sel Range Orga Result 49.9 449.9 449.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/06/22 11:28 12/06/22 11:28 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/07/22 04:16 12/07/22 04:16 12/07/22 04:16	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	sel Range Organ Result <49.9  sel Range Orga Result <49.9  <49.9  <49.9  %Recovery 128	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/06/22 11:28 12/06/22 11:28 12/06/22 11:28 Prepared	Analyzed  12/07/22 10:55  Analyzed  12/07/22 04:16  12/07/22 04:16  12/07/22 04:16  Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	el Range Organ Result 49.9 sel Range Orga Result  49.9 49.9 49.9 %Recovery 128 153	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+	GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/06/22 11:28 12/06/22 11:28 12/06/22 11:28 Prepared 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/07/22 04:16 12/07/22 04:16  Analyzed 12/07/22 04:16	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9  %Recovery 128 153 s, lon Chromato	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+	GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 12/06/22 11:28 12/06/22 11:28 12/06/22 11:28 Prepared 12/06/22 11:28	Analyzed 12/07/22 10:55  Analyzed 12/07/22 04:16 12/07/22 04:16  Analyzed 12/07/22 04:16	Dil Fac

Client Sample ID: S-3 (1.5') Lab Sample ID: 880-22037-18 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

Date Received: 11/30/22 09:09

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Unit D Dil Fac RL Prepared Analyzed Benzene <0.00202 U 0.00202 mg/Kg 12/01/22 15:15 12/09/22 05:33 Toluene <0.00202 U 0.00202 mg/Kg 12/01/22 15:15 12/09/22 05:33 Ethylbenzene <0.00202 U 0.00202 mg/Kg 12/01/22 15:15 12/09/22 05:33 m-Xylene & p-Xylene <0.00403 U 0.00403 mg/Kg 12/01/22 15:15 12/09/22 05:33 o-Xylene <0.00202 U 0.00202 mg/Kg 12/01/22 15:15 12/09/22 05:33 <0.00403 U 0.00403 12/01/22 15:15 12/09/22 05:33 Xylenes, Total mg/Kg %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 126 70 - 130 12/01/22 15:15 12/09/22 05:33 4-Bromofluorobenzene (Surr)

**Eurofins Midland** 

12/09/22 05:33

12/01/22 15:15

70 - 130

96

1,4-Difluorobenzene (Surr)

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Lab Sample ID: 880-22037-18

Matrix: Solid

Client Sample ID: S-3 (1.5') Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg		<u>-</u>	12/09/22 13:21	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/22 10:55	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 04:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 04:38	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:28	12/07/22 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				12/06/22 11:28	12/07/22 04:38	1
o-Terphenyl	165	S1+	70 - 130				12/06/22 11:28	12/07/22 04:38	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2910	· <del></del>	24.9		mg/Kg			12/02/22 20:42	5

Client Sample ID: S-3 (2') Lab Sample ID: 880-22037-19

Date Collected: 11/29/22 00:00	Ma	atrix: Solid
Date Received: 11/30/22 09:09		
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		12/01/22 15:15	12/09/22 05:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 05:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 05:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 05:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:15	12/09/22 05:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:15	12/09/22 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				12/01/22 15:15	12/09/22 05:54	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/01/22 15:15	12/09/22 05:54	1
Method: TAL SOP Total BTEX Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
• ' '	- Total BTEX Cald	culation							
Method: TAL SOP Total BTEX		Qualifier	RL 0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/09/22 13:21	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	<0.00398	<b>Qualifier</b> U	0.00398	MDL		<u>D</u>	Prepared		
Method: TAL SOP Total BTEX Analyte	Result <0.00398	<b>Qualifier</b> U	0.00398			<u>D</u>	Prepared Prepared		
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	Result <0.00398	Qualifier U ics (DRO) (Qualifier	0.00398 GC)		mg/Kg			12/09/22 13:21	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	Result <0.00398  sel Range Organ Result <49.9	Qualifier U ics (DRO) ( Qualifier U	0.00398  GC)  RL  49.9		mg/Kg			12/09/22 13:21  Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	Result <0.00398  sel Range Organ Result <49.9	Qualifier U ics (DRO) ( Qualifier U	0.00398  GC)  RL  49.9	MDL	mg/Kg			12/09/22 13:21  Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	Result <0.00398  sel Range Organ Result <49.9	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	0.00398  GC)  RL 49.9  (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared	12/09/22 13:21  Analyzed  12/07/22 10:55	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics	Result <0.00398  sel Range Organ Result <49.9  iesel Range Orga Result	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	0.00398  GC)  RL 49.9  (GC) RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	12/09/22 13:21  Analyzed  12/07/22 10:55  Analyzed	1

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

Client Sample ID: S-3 (2')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-19

**Matrix: Solid** 

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC) (Continue	ed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:28	12/07/22 04:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 130				12/06/22 11:28	12/07/22 04:59	

o-Terphenyl 142 S1+ 70 - 130 12/06/22 11:28 12/07/22 04:59

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed 25.2 12/02/22 20:50 Chloride 3230 mg/Kg

Client Sample ID: S-3 (3') Lab Sample ID: 880-22037-20

Date Received: 11/30/22 09:09

Date Collected: 11/29/22 00:00 **Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 06:14	-
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 06:14	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 06:14	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 06:14	
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/09/22 06:14	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 15:15	12/09/22 06:14	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	124		70 - 130				12/01/22 15:15	12/09/22 06:14	
1,4-Difluorobenzene (Surr)	100		70 - 130				12/01/22 15:15	12/09/22 06:14	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)		mg/Kg				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			12/07/22 10:55	
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/06/22 11:28	12/07/22 05:21	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/06/22 11:28	12/07/22 05:21	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/22 11:28	12/07/22 05:21	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 2510 25.1 mg/Kg 12/02/22 20:59

70 - 130

70 - 130

133 S1+

158 S1+

**Eurofins Midland** 

12/07/22 05:21

12/07/22 05:21

12/06/22 11:28

12/06/22 11:28

1-Chlorooctane

o-Terphenyl

Client: Carmona Resources

Client Sample ID: S-3 (4') Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Project/Site: Irwin 23-14 Federal Battery

Matrix: Solid

Job ID: 880-22037-1

SDG: Eddy Co, NM

Lab	Samp	ie il	): t	380	)-2	20	37-
				_	_		_

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 10:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 10:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 10:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 10:53	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 10:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 10:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				12/01/22 14:19	12/09/22 10:53	1
1,4-Difluorobenzene (Surr)	110		70 - 130				12/01/22 14:19	12/09/22 10:53	1

	Method: TAL SOP Total BTEX - Total BTEX Calculation
ı	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 12:20	1

Method: SW846 8015 NM - Die	sel Range Organics (DRO) (	3C)
	D 11 0 110	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/07/22 09:45	1

Ana	llyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gas	soline Range Organics	<49.8	U	49.8		mg/Kg		12/05/22 11:32	12/06/22 14:26	1
(GR	RO)-C6-C10									
Dies	sel Range Organics (Over	<49.8	U	49.8		mg/Kg		12/05/22 11:32	12/06/22 14:26	1
C10	)-C28)									
OII I	Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/22 11:32	12/06/22 14:26	1
(GR Dies C10	RO)-C6-C10 sel Range Organics (Over 0-C28)	<49.8	U	49.8	1	mg/Kg		12/05/22 11:32		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	12/05/22 11:32	12/06/22 14:26	1
o-Terphenyl	136	S1+	70 - 130	12/05/22 11:32	12/06/22 14:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4270		25.0		mg/Kg			12/01/22 23:00	5

Client Sample ID: S-3 (5')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-22

**Matrix: Solid** 

Mothod: SW846 8021B	Volatilo Organi	c Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 11:13	1
Toluene	< 0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 11:13	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 11:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 11:13	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 11:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 11:13	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77	70 - 130	12/01/22 14:19	12/09/22 11:13	1
1,4-Difluorobenzene (Surr)	105	70 - 130	12/01/22 14:19	12/09/22 11:13	1

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Client Sample ID: S-3 (5')

Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-22 Date Collected: 11/29/22 00:00

Matrix: Solid

	Method: TAL SOP Total BTEX - To	tal BIEX Calc	ulation							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 12:20	1

Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	n	ng/Kg			12/07/22 09:45	1

_					3 3				
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		12/05/22 11:32	12/06/22 14:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/22 11:32	12/06/22 14:48	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/22 11:32	12/06/22 14:48	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				12/05/22 11:32	12/06/22 14:48	1
o-Terphenyl	142	S1+	70 - 130				12/05/22 11:32	12/06/22 14:48	1

Method: MCAWW 300.0 - Anions, Id	on Chromato	graphy - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2150		24.9		mg/Kg			12/01/22 23:07	5

Client Sample ID: S-4 (0-1') Lab Sample ID: 880-22037-23 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

Date Received: 11/30/22 09:09

Released to Imaging: 6/1/2023 1:11:45 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/02/22 13:30	12/09/22 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
								10/00/00 10 05	
4-Bromofluorobenzene (Surr)	125		70 - 130				12/02/22 13:30	12/09/22 19:25	1
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX	83	culation	70 - 130 70 - 130				12/02/22 13:30 12/02/22 13:30	12/09/22 19:25	
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte	83 - Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00399 sel Range Organ	<b>Qualifier</b> U	70 - 130  RL 0.00399			<u>D</u>	12/02/22 13:30	12/09/22 19:25 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	- Total BTEX Calc Result <0.00399 sel Range Organ	Qualifier U ics (DRO) (Qualifier	70 - 130  RL 0.00399		mg/Kg		12/02/22 13:30 Prepared	12/09/22 19:25  Analyzed  12/12/22 15:15	Dil Fac
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Die Analyte  Total TPH  Method: SW846 8015B NM - D Analyte	- Total BTEX Cald Result <0.00399 sel Range Organ Result <50.0 iesel Range Organ Result Result Result	Qualifier U ics (DRO) ( Qualifier U nics (DRO) Qualifier	70 - 130  RL 0.00399  GC) RL 50.0  (GC) RL	MDL	mg/Kg  Unit mg/Kg  Unit		Prepared  Prepared  Prepared	Analyzed  12/09/22 19:25  Analyzed  12/12/22 15:15  Analyzed  12/07/22 09:45	Dil Fac
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Cald Result <0.00399  sel Range Organ Result <50.0  iesel Range Orga	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	70 - 130  RL 0.00399  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared  Prepared	Analyzed 12/07/22 09:45	Dil Fac

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Client Sample ID: S-4 (0-1')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-23

Matrix: Solid

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC) (Continue	ed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				12/05/22 11:32	12/06/22 15:10	1
o-Terphenyl	128		70 - 130				12/05/22 11:32	12/06/22 15:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 77.3 5.04 12/01/22 23:13 Chloride mg/Kg

Client Sample ID: S-4 (1.5')

Date Collected: 11/29/22 00:00

Lab Sample ID: 880-22037-24

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		12/02/22 13:30	12/09/22 19:46	-
Toluene	<0.00201	U	0.00201		mg/Kg		12/02/22 13:30	12/09/22 19:46	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/02/22 13:30	12/09/22 19:46	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/02/22 13:30	12/09/22 19:46	
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/02/22 13:30	12/09/22 19:46	•
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/02/22 13:30	12/09/22 19:46	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				12/02/22 13:30	12/09/22 19:46	
1,4-Difluorobenzene (Surr)	102		70 - 130				12/02/22 13:30	12/09/22 19:46	•
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/12/22 15:15	
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	11	49.9		mg/Kg			12/07/22 09:45	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg	<u> </u>	12/05/22 11:32	12/06/22 15:33	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/22 11:32	12/06/22 15:33	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/22 11:32	12/06/22 15:33	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	138	S1+	70 - 130				12/05/22 11:32	12/06/22 15:33	
o-Terphenyl	135	S1+	70 - 130				12/05/22 11:32	12/06/22 15:33	

RL

4.97

MDL Unit

mg/Kg

Prepared

**Eurofins Midland** 

Analyzed

12/01/22 23:20

Result Qualifier

56.5

12/12/2022

Dil Fac

Analyte

Chloride

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

Client Sample ID: S-4 (2')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-25

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/01/22 15:55	12/09/22 18:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/01/22 15:55	12/09/22 18:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/01/22 15:55	12/09/22 18:44	1
m-Xylene & p-Xylene	< 0.00396	U	0.00396		mg/Kg		12/01/22 15:55	12/09/22 18:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/01/22 15:55	12/09/22 18:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/01/22 15:55	12/09/22 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				12/01/22 15:55	12/09/22 18:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/01/22 15:55	12/09/22 18:44	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396		mg/Kg			12/12/22 15:15	1
-					5 5				
Method: SW846 8015 NM - Diese	al Range Organ	ics (DRO) ((	GC)		5. 3				
Method: SW846 8015 NM - Diese Analyte			•	MDL		D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	GC)  RL  50.0	MDL	Unit	<u>D</u>	Prepared	Analyzed 12/07/22 09:45	
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared		
Analyte	Result   <50.0	Qualifier U	<b>RL</b> 50.0	MDL	Unit	<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U	<b>RL</b> 50.0	MDL	Unit mg/Kg	D_	Prepared Prepared		1
Analyte Total TPH  Method: SW846 8015B NM - Dies	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0		Unit mg/Kg			12/07/22 09:45	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0  Sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL   50.0		Unit mg/Kg  Unit mg/Kg		Prepared 12/05/22 11:32	12/07/22 09:45  Analyzed  12/06/22 16:17	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga	Qualifier U  nics (DRO) Qualifier U	RL 50.0		Unit mg/Kg		Prepared	12/07/22 09:45  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U  nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/05/22 11:32 12/05/22 11:32	12/07/22 09:45  Analyzed 12/06/22 16:17 12/06/22 16:17	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  Sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL   50.0		Unit mg/Kg  Unit mg/Kg		Prepared 12/05/22 11:32	12/07/22 09:45  Analyzed  12/06/22 16:17	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U  nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/05/22 11:32 12/05/22 11:32	12/07/22 09:45  Analyzed 12/06/22 16:17 12/06/22 16:17	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0  (GC)  RL 50.0  50.0  50.0		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32	12/07/22 09:45  Analyzed 12/06/22 16:17 12/06/22 16:17	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL   50.0		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32 Prepared	12/07/22 09:45  Analyzed  12/06/22 16:17  12/06/22 16:17  12/06/22 16:17  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+ S1+	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32  Prepared 12/05/22 11:32	12/07/22 09:45  Analyzed 12/06/22 16:17  12/06/22 16:17  Analyzed 12/06/22 16:17	Dil Fac  1  1  Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+ S1+	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 12/05/22 11:32 12/05/22 11:32 12/05/22 11:32  Prepared 12/05/22 11:32	12/07/22 09:45  Analyzed 12/06/22 16:17  12/06/22 16:17  Analyzed 12/06/22 16:17	1 Dil Fac

Client Sample ID: S-4 (3') Lab Sample ID: 880-22037-26 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

Date Received: 11/30/22 09:09

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 19:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 19:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 19:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 19:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 19:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				12/01/22 15:55	12/09/22 19:05	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/01/22 15:55	12/09/22 19:05	1

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Lab Sample ID: 880-22037-26

Matrix: Solid

Cilent	Sample	9 ID: 5-4	4 (3')
Data Cal	lootodi	44/20/22	00.00

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:15	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/22 09:45	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 16:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 16:39	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:32	12/06/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				12/05/22 11:32	12/06/22 16:39	1
o-Terphenyl	135	S1+	70 - 130				12/05/22 11:32	12/06/22 16:39	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.3		5.05		mg/Kg			12/01/22 23:46	

# **Surrogate Summary**

Client: Carmona Resources

Job ID: 880-22037-1

Project/Site: Irwin 23-14 Federal Battery

SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-22036-A-1-D MS	Matrix Spike	66 S1-	98	
880-22036-A-1-E MSD	Matrix Spike Duplicate	65 S1-	95	
880-22037-1	H-1 (0-1')	116	81	
880-22037-1 MS	H-1 (0-1')	109	95	
880-22037-1 MSD	H-1 (0-1')	111	92	
880-22037-2	H-2 (0-1')	117	89	
880-22037-3	H-3 (0-1')	121	99	
880-22037-4	H-4 (0-1')	120	95	
880-22037-5	S-1 (0-1')	96	70	
880-22037-6	S-1 (1.5')	126	97	
880-22037-7	S-1 (2')	117	81	
880-22037-8	S-1 (3')	127	97	
880-22037-9	S-1 (4')	118	90	
880-22037-10	S-1 (5')	67 S1-	72	
880-22037-11	S-2 (0-1')	103	69 S1-	
880-22037-12	S-2 (1.5')	42 S1-	84	
880-22037-13	S-2 (2')	124	85	
880-22037-14	S-2 (3')	126	97	
880-22037-15	S-2 (4')	123	97	
880-22037-16	S-2 (5')	43 S1-	86	
880-22037-17	S-3 (0-1')	126	83	
880-22037-18	S-3 (1.5')	126	96	
880-22037-19	S-3 (2')	121	98	
880-22037-20	S-3 (3')	124	100	
880-22037-21	S-3 (4')	90	110	
880-22037-22	S-3 (5')	77	105	
880-22037-23	S-4 (0-1')	125	83	
880-22037-24	S-4 (1.5')	133 S1+	102	
880-22037-25	S-4 (2')	128	93	
880-22037-26	S-4 (3')	125	93	
880-22119-A-6-A MS	Matrix Spike	95	96	
880-22119-A-6-B MSD	Matrix Spike Duplicate	111	82	
LCS 880-40812/1-A	Lab Control Sample	77	109	
LCS 880-40819/1-A	Lab Control Sample	113	97	
LCS 880-40824/1-A	Lab Control Sample	97	93	
LCSD 880-40812/2-A	Lab Control Sample Dup	76	102	
LCSD 880-40819/2-A	Lab Control Sample Dup	115	95	
LCSD 880-40824/2-A	Lab Control Sample Dup	105	93	
MB 880-40812/5-A	Method Blank	66 S1-	102	
MB 880-40819/5-A	Method Blank	101	94	
MB 880-40824/5-A	Method Blank	101	88	
MB 880-41251/5-A	Method Blank	102	91	
MB 880-41354/5-A	Method Blank	69 S1-	102	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Midland

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# **Surrogate Summary**

Client: Carmona Resources Job ID: 880-22037-1 Project/Site: Irwin 23-14 Federal Battery SDG: Eddy Co, NM

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

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

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-22037-1	H-1 (0-1')	132 S1+	156 S1+	
880-22037-1 MS	H-1 (0-1')	115	116	
880-22037-1 MSD	H-1 (0-1')	105	109	
880-22037-2	H-2 (0-1')	130	152 S1+	
880-22037-3	H-3 (0-1')	121	144 S1+	
880-22037-4	H-4 (0-1')	143 S1+	172 S1+	
880-22037-5	S-1 (0-1')	129	157 S1+	
880-22037-6	S-1 (1.5')	132 S1+	158 S1+	
880-22037-7	S-1 (2')	128	155 S1+	
880-22037-8	S-1 (3')	125	148 S1+	
880-22037-9	S-1 (4')	128	151 S1+	
880-22037-10	S-1 (5')	132 S1+	159 S1+	
880-22037-11	S-2 (0-1')	119	143 S1+	
880-22037-12	S-2 (1.5')	127	152 S1+	
880-22037-13	S-2 (2')	116	137 S1+	
880-22037-14	S-2 (3')	119	139 S1+	
880-22037-15	S-2 (4')	141 S1+	160 S1+	
880-22037-16	S-2 (5')	143 S1+	165 S1+	
880-22037-17	S-3 (0-1')	128	153 S1+	
880-22037-18	S-3 (1.5')	136 S1+	165 S1+	
880-22037-19	S-3 (2')	120	142 S1+	
880-22037-20	S-3 (3')	133 S1+	158 S1+	
880-22037-21	S-3 (4')	145 S1+	136 S1+	
880-22037-22	S-3 (5')	151 S1+	142 S1+	
880-22037-23	S-4 (0-1')	127	128	
880-22037-24	S-4 (1.5')	138 S1+	135 S1+	
880-22037-25	S-4 (2')	138 S1+	134 S1+	
880-22037-26	S-4 (3')	145 S1+	135 S1+	
880-22110-A-1-E MS	Matrix Spike	142 S1+	112	
880-22110-A-1-F MSD	Matrix Spike Duplicate	120	99	
LCS 880-41024/2-A	Lab Control Sample	129	120	
LCS 880-41158/2-A	Lab Control Sample	161 S1+	197 S1+	
LCSD 880-41024/3-A	Lab Control Sample Dup	129	117	
LCSD 880-41158/3-A	Lab Control Sample Dup	154 S1+	180 S1+	
MB 880-41024/1-A	Method Blank	130	127	
MB 880-41158/1-A	Method Blank	110	139 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources Job ID: 880-22037-1 Project/Site: Irwin 23-14 Federal Battery

SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-40812/5-A

Lab Sample ID: LCS 880-40812/1-A

Lab Sample ID: LCSD 880-40812/2-A

**Matrix: Solid** 

Analysis Batch: 41352

**Matrix: Solid** Analysis Batch: 41352 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40812

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 14:19	12/09/22 02:25	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepa	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	12/01/22	14:19	12/09/22 02:25	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/01/22	14:19	12/09/22 02:25	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 40812

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09060 mg/Kg 91 70 - 130 Toluene 0.100 0.08987 mg/Kg 90 70 - 130 0.100 0.08402 Ethylbenzene mg/Kg 84 70 - 130 0.200 0.1513 76 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.07504 70 - 130 o-Xylene mg/Kg 75

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Batch: 40812

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08083		mg/Kg		81	70 - 130	11	35
Toluene	0.100	0.08944		mg/Kg		89	70 - 130	0	35
Ethylbenzene	0.100	0.08507		mg/Kg		85	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1525		mg/Kg		76	70 - 130	1	35
o-Xylene	0.100	0.07477		mg/Kg		75	70 - 130	0	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1.4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-22036-A-1-D MS

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 41352

Analysis Batch: 41352

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

Prep Batch: 40812

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.100	0.05819	F1	mg/Kg	_	58	70 - 130	
Toluene	<0.00201	U F1	0.100	0.05709	F1	mg/Kg		57	70 - 130	

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Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-A-1-D MS

**Matrix: Solid** 

Analysis Batch: 41352

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 40812

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U F1	0.100	0.05730	F1	mg/Kg		57	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1040	F1	mg/Kg		51	70 - 130	
o-Xylene	<0.00201	U F1	0.100	0.05678	F1	mg/Kg		56	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130		
1,4-Difluorobenzene (Surr)	98		70 - 130		

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Prep Batch: 40812

**Matrix: Solid** Analysis Batch: 41352

Lab Sample ID: 880-22036-A-1-E MSD

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0994	0.05039	F1	mg/Kg		51	70 - 130	14	35
Toluene	<0.00201	U F1	0.0994	0.05380	F1	mg/Kg		54	70 - 130	6	35
Ethylbenzene	<0.00201	U F1	0.0994	0.05628	F1	mg/Kg		57	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.09921	F1	mg/Kg		49	70 - 130	5	35
o-Xylene	<0.00201	U F1	0.0994	0.05389	F1	mg/Kg		54	70 - 130	5	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-40819/5-A

**Matrix: Solid** 

**Analysis Batch: 41323** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40819

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 22:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 22:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 22:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/22 15:15	12/08/22 22:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:15	12/08/22 22:20	1

0.00400

mg/Kg

MB MB

<0.00400 U

MB MB

Surrogate	%Recovery	Qualifier	Limits	P	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	12/0	01/22 15:15	12/08/22 22:20	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/0	01/22 15:15	12/08/22 22:20	1

Lab Sample ID: LCS 880-40819/1-A

**Matrix: Solid** 

Xylenes, Total

Analysis Batch: 41323

**Client Sample ID: Lab Control Sample** 

12/01/22 15:15 12/08/22 22:20

Prep Type: Total/NA

Prep Batch: 40819

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1095		mg/Kg		109	70 - 130	
Toluene	0.100	0.1044		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1063		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	0.200	0.2400		mg/Kg		120	70 - 130	

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Released to Imaging: 6/1/2023 1:11:45 PM

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-40819/1-A **Matrix: Solid** 

Lab Sample ID: LCSD 880-40819/2-A

Analysis Batch: 41323

Surrogate

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 40819

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits D o-Xylene 0.100 0.1207 121 70 - 130 mg/Kg

%Rec

LCS LCS %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 113 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 97

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Matrix: Solid Analysis Batch: 41323** 

Prep Batch: 40819

Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1119 mg/Kg 112 70 - 130 2 Toluene 0.100 0.1103 mg/Kg 110 70 - 130 5 Ethylbenzene 0.100 0.1093 mg/Kg 109 70 - 130 3 m-Xylene & p-Xylene 0.200 0.2413 mg/Kg 121 70 - 130 0.100 0.1235 124 70 - 130 o-Xylene mg/Kg

35 35 35 35

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 115 70 - 130 1,4-Difluorobenzene (Surr) 95 70 - 130

Lab Sample ID: 880-22037-1 MS

**Matrix: Solid** 

**Analysis Batch: 41323** 

Client Sample ID: H-1 (0-1') Prep Type: Total/NA

Prep Batch: 40819

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.08296		mg/Kg		83	70 - 130	
Toluene	<0.00201	U	0.0998	0.07940		mg/Kg		78	70 - 130	
Ethylbenzene	<0.00201	U	0.0998	0.08079		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1766		mg/Kg		88	70 - 130	
o-Xylene	<0.00201	U	0.0998	0.09067		mg/Kg		90	70 - 130	

MS MS

Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 109 70 - 130 1,4-Difluorobenzene (Surr) 95

Lab Sample ID: 880-22037-1 MSD Client Sample ID: H-1 (0-1')

**Matrix: Solid** 

**Analysis Batch: 41323** 

Prep Type: Total/NA Prep Batch: 40819

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.08744		mg/Kg		88	70 - 130	5	35
Toluene	<0.00201	U	0.0990	0.08159		mg/Kg		81	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0990	0.08981		mg/Kg		90	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1954		mg/Kg		99	70 - 130	10	35
o-Xylene	<0.00201	U	0.0990	0.1019		mg/Kg		103	70 - 130	12	35

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

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

Lab Sample ID: 880-22037-1 MSD

**Matrix: Solid** 

**Analysis Batch: 41323** 

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

Prep Type: Total/NA Prep Batch: 40819

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 111 70 - 130 1,4-Difluorobenzene (Surr) 92 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40824

Lab Sample ID: MB 880-40824/5-A **Matrix: Solid** 

Analysis Batch: 41419 MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <0.00200 U 0.00200 12/01/22 15:55 12/09/22 11:49 Benzene mg/Kg Toluene <0.00200 U 0.00200 12/01/22 15:55 12/09/22 11:49 mg/Kg <0.00200 U 0.00200 12/01/22 15:55 12/09/22 11:49 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 12/01/22 15:55 12/09/22 11:49 o-Xylene <0.00200 U 0.00200 mg/Kg 12/01/22 15:55 12/09/22 11:49 Xylenes, Total <0.00400 U 0.00400 mg/Kg 12/01/22 15:55 12/09/22 11:49

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	70 - 130	12/01/22 15:55	12/09/22 11:49	1
1,4-Difluorobenzene (Surr)	88	70 - 130	12/01/22 15:55	12/09/22 11:49	1

Lab Sample ID: LCS 880-40824/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** 

Analysis Batch: 41419

Prep Type: Total/NA Prep Batch: 40824

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1081		mg/Kg		108	70 - 130	
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.09481		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.2010		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

**Analysis Batch: 41419** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40824

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1088		mg/Kg		109	70 - 130	1	35
Toluene	0.100	0.1020		mg/Kg		102	70 - 130	2	35
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2153		mg/Kg		108	70 - 130	7	35
o-Xylene	0.100	0.1047		mg/Kg		105	70 - 130	1	35

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 105 70 - 130

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Lab Sample ID: LCSD 880-40824/2-A **Matrix: Solid** 

Client: Carmona Resources Job ID: 880-22037-1 Project/Site: Irwin 23-14 Federal Battery SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-40824/2-A

**Matrix: Solid** 

**Analysis Batch: 41419** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40824

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 93 70 - 130

Lab Sample ID: 880-22119-A-6-A MS

**Matrix: Solid** 

**Analysis Batch: 41419** 

Client Sample ID: Matrix Spike **Prep Type: Total/NA** 

Prep Batch: 40824

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0996	0.07632		mg/Kg		75	70 - 130	
Toluene	<0.00201	U F1	0.0996	0.07199		mg/Kg		72	70 - 130	
Ethylbenzene	<0.00201	U	0.0996	0.07077		mg/Kg		70	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1552		mg/Kg		78	70 - 130	
o-Xylene	<0.00201	U	0.0996	0.08169		mg/Kg		82	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: 880-22119-A-6-B MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

**Analysis Batch: 41419** 

Prep Type: Total/NA

Prep Batch: 40824

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0990	0.05892	F1	mg/Kg		58	70 - 130	26	35
Toluene	<0.00201	U F1	0.0990	0.05582	F1	mg/Kg		56	70 - 130	25	35
Ethylbenzene	<0.00201	U	0.0990	0.07497		mg/Kg		75	70 - 130	6	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1563		mg/Kg		79	70 - 130	1	35
o-Xylene	<0.00201	U	0.0990	0.08015		mg/Kg		81	70 - 130	2	35
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00201 <0.00201 <0.00201 <0.00402	U F1 U F1 U	0.0990 0.0990 0.0990 0.198	0.05892 0.05582 0.07497 0.1563	F1	mg/Kg mg/Kg mg/Kg mg/Kg	<u>-</u>	58 56 75 79	70 - 130 70 - 130 70 - 130 70 - 130	26 25	35 35 35 35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: MB 880-41251/5-A

**Matrix: Solid** 

**Analysis Batch: 41323** 

Client Sample ID: Method Blank

ı		IVID	IVID							
l	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Benzene	<0.00200	U	0.00200		mg/Kg		12/07/22 10:18	12/08/22 11:44	1
l	Toluene	<0.00200	U	0.00200		mg/Kg		12/07/22 10:18	12/08/22 11:44	1
l	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/07/22 10:18	12/08/22 11:44	1
l	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/07/22 10:18	12/08/22 11:44	1
l	o-Xylene	<0.00200	U	0.00200		mg/Kg		12/07/22 10:18	12/08/22 11:44	1
١	Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/07/22 10:18	12/08/22 11:44	1
1										

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	12/07/22 10:18	12/08/22 11:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/07/22 10:18	12/08/22 11:44	1

**Eurofins Midland** 

Prep Type: Total/NA

Prep Batch: 41251

Client: Carmona Resources Job ID: 880-22037-1 Project/Site: Irwin 23-14 Federal Battery

SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-41354/5-A **Matrix: Solid** 

Analysis Batch: 41352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41354

	мв	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
	MR	MR							

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	12/08/22 10:50	12/08/22 14:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/08/22 10:50	12/08/22 14:50	1

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

Lab Sample ID: MB 880-41024/1-A

**Matrix: Solid** 

(GRO)-C6-C10

Analyte

C10-C28)

Analysis Batch: 41104

Gasoline Range Organics

Diesel Range Organics (Over

Client Sample ID: Method Blank

12/06/22 08:55

Prep Type: Total/NA

Prep Batch: 41024

Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 mg/Kg 12/05/22 11:32 12/06/22 08:55 <50.0 U 50.0 mg/Kg 12/05/22 11:32 12/06/22 08:55

mg/Kg

Oll Range Organics (Over C28-C36)

мв мв

<50.0 U

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	12/05/22 1	1:32 12	2/06/22 08:55	1
o-Terphenyl	127		70 - 130	12/05/22 1	1:32 12	2/06/22 08:55	1

50.0

Lab Sample ID: LCS 880-41024/2-A

**Matrix: Solid** 

Analysis Batch: 41104

**Client Sample ID: Lab Control Sample** 

12/05/22 11:32

Prep Type: Total/NA Prep Batch: 41024

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	840.2		mg/Kg	_	84	70 - 130	 
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	897.2		mg/Kg		90	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	120		70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

84

Prep Type: Total/NA

Analysis Batch: 41104 Prep Batch: 41024 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit

836.2

mg/Kg

(GRO)-C6-C10

Gasoline Range Organics

Matrix: Solid

**Eurofins Midland** 

1000

Lab Sample ID: LCSD 880-41024/3-A

Client: Carmona Resources Project/Site: Irwin 23-14 Federal Battery Job ID: 880-22037-1

SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-41024/3-A **Matrix: Solid** 

Analysis Batch: 41104

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

Prep Batch: 41024

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D 1000 886.7 89 70 - 130 20 Diesel Range Organics (Over mg/Kg

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 880-22110-A-1-E MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 41104

Prep Type: Total/NA

Prep Batch: 41024

Prep Type: Total/NA

MS MS %Rec Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits <50.0 U 999 1052 103 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 1095 mg/Kg 108 70 - 130 C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	142	S1+	70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 880-22110-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

**Analysis Batch: 41104** 

Prep Batch: 41024 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <50.0 U Gasoline Range Organics 997 924.9 mg/Kg 90 70 - 13013 20 <50.0 U 997 961.7 95 70 - 130 13 20 Diesel Range Organics (Over mg/Kg

C10-C28)

(GRO)-C6-C10

Analyte

MSD MSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 120 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: MB 880-41158/1-A

**Matrix: Solid** 

**Analysis Batch: 41106** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41158

мв мв Result Qualifier MDL Analyte RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 12/06/22 11:28 12/06/22 20:18 mg/Kg (GRO)-C6-C10 50.0 12/06/22 11:28 12/06/22 20:18 Diesel Range Organics (Over <50.0 U mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/06/22 11:28 12/06/22 20:18

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	12/06/22 11:28	12/06/22 20:18	1
o-Terphenyl	139	S1+	70 - 130	12/06/22 11:28	12/06/22 20:18	1

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-41158/2-A

**Matrix: Solid** Analysis Batch: 41106 **Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 41158

Spike LCS LCS Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 804.4 mg/Kg 80 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 998 1 mg/Kg 100 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	161	S1+	70 - 130
o-Terphenyl	197	S1+	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41158

Lab Sample ID: LCSD 880-41158/3-A Matrix: Solid **Analysis Batch: 41106** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	816.9		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	931.1		mg/Kg		93	70 - 130	7	20

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	154	S1+	70 - 130
o-Terphenyl	180	S1+	70 - 130

Lab Sample ID: 880-22037-1 MS

Lab Sample ID: 880-22037-1 MSD

**Matrix: Solid** 

**Analysis Batch: 41106** 

Prep Type: Total/NA Prep Batch: 41158

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 999 111 70 - 130 1134 mg/Kg (GRO)-C6-C10 <50.0 U 999 1024 98 70 - 130 Diesel Range Organics (Over mg/Kg C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 115 70 - 130 70 - 130 o-Terphenyl 116

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

Prep Type: Total/NA

**Matrix: Solid Analysis Batch: 41106** Prep Batch: 41158

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.0	U	997	934.8		mg/Kg		91	70 - 130	19	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.0	U	997	944.1		mg/Kg		90	70 - 130	8	20	
C10-C28)												

Med Med

	พเรม	IVISU			
Surrogate	%Recovery Qualifier		Limits		
1-Chlorooctane	105		70 - 130		

Lab Sample ID: 880-22037-1 MSD

## QC Sample Results

Client: Carmona Resources Project/Site: Irwin 23-14 Federal Battery

SDG: Eddy Co, NM

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

**Matrix: Solid** 

Analysis Batch: 41106

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

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 41158

**Prep Type: Soluble** 

Client Sample ID: S-4 (1.5')

Client Sample ID: Method Blank

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 109 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40727/1-A

Matrix: Solid

Analysis Batch: 40840

MB MB

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride <5.00 5.00 12/01/22 21:27 U mg/Kg

Lab Sample ID: LCS 880-40727/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

LCS LCS

Analysis Batch: 40840

Spike %Rec Added Result Qualifier Analyte Unit D %Rec Limits Chloride 250 261.2 mg/Kg 104 90 - 110

Lab Sample ID: LCSD 880-40727/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 40840** 

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 274.8 90 - 110 mg/Kg 110 20

Lab Sample ID: 880-22037-24 MS Client Sample ID: S-4 (1.5')

**Matrix: Solid** 

Analysis Batch: 40840

Spike MS MS %Rec Sample Sample Analyte Qualifier Added Qualifier Unit %Rec Result Result Limits Chloride 56.5 249 312.8 103 90 - 110 mg/Kg

Lab Sample ID: 880-22037-24 MSD

**Matrix: Solid** 

Analysis Batch: 40840

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier RPD Limit Analyte Result Unit %Rec Limits Chloride 249 101 56.5 306.6 90 - 110 mg/Kg

Lab Sample ID: MB 880-40690/1-A

**Matrix: Solid** 

Analysis Batch: 40920

MB MB

Result Qualifier Analyte RL MDL Analyzed Dil Fac Unit D Prepared Chloride 5.00 12/02/22 16:55 <5.00 U mg/Kg

## QC Sample Results

Job ID: 880-22037-1 Client: Carmona Resources Project/Site: Irwin 23-14 Federal Battery

SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40690/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 40920

Spike LCS LCS %Rec Analyte Added Result Qualifier %Rec Limits Unit D Chloride 250 255.0 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-40690/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 40920** 

Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 257.2 mg/Kg 103 90 - 110

Lab Sample ID: 880-22037-1 MS Client Sample ID: H-1 (0-1') **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 40920

MS MS Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 262.7 15.6 250 mg/Kg 90 - 110

Lab Sample ID: 880-22037-1 MSD Client Sample ID: H-1 (0-1') **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 40920** 

Sample Sample MSD MSD RPD Spike %Rec Added %Rec RPD Limit Analyte Result Qualifier Result Qualifie Unit Limits Chloride 15.6 250 262.9 90 - 110 20 mg/Kg

Lab Sample ID: 880-22037-11 MS Client Sample ID: S-2 (0-1') **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 40920

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 26.6 250 273.9 mg/Kg 99 90 - 110

Lab Sample ID: 880-22037-11 MSD Client Sample ID: S-2 (0-1') **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 40920** 

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 26 6 250 276.9 mg/Kg 100 90 - 110

Lab Sample ID: MB 880-40834/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 40952** 

мв мв Result Qualifier RL MDL Dil Fac Analyte Unit Prepared Analyzed Chloride <5.00 5.00 mg/Kg 12/04/22 11:43

Lab Sample ID: LCS 880-40834/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 40952** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	251.9		mg/Kg		101	90 - 110	 

**Eurofins Midland** 

**Prep Type: Soluble** 

## QC Sample Results

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-40834/3-A

**Matrix: Solid** 

Analysis Batch: 40952

Analyte

Chloride

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

%Rec RPD Limit Unit %Rec Limits RPD mg/Kg 101 90 - 110

Lab Sample ID: 880-22037-2 MS Client Sample ID: H-2 (0-1') **Matrix: Solid Prep Type: Soluble** 

LCSD LCSD

251.8

Result Qualifier

Spike

Added

250

Analysis Batch: 40952

Sample Sample Spike MS MS %Rec Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec Chloride 21.3 252 280.7 mg/Kg 103 90 - 110

Lab Sample ID: 880-22037-2 MSD Client Sample ID: H-2 (0-1') **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 40952

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	21.3		252	281.1		mg/Kg		103	90 - 110	0	20

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

## **GC VOA**

### Prep Batch: 40812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Total/NA	Solid	5035	
880-22037-22	S-3 (5')	Total/NA	Solid	5035	
MB 880-40812/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40812/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40812/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22036-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-22036-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### Prep Batch: 40819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	5035	
880-22037-2	H-2 (0-1')	Total/NA	Solid	5035	
880-22037-3	H-3 (0-1')	Total/NA	Solid	5035	
880-22037-4	H-4 (0-1')	Total/NA	Solid	5035	
880-22037-5	S-1 (0-1')	Total/NA	Solid	5035	
880-22037-6	S-1 (1.5')	Total/NA	Solid	5035	
880-22037-7	S-1 (2')	Total/NA	Solid	5035	
880-22037-8	S-1 (3')	Total/NA	Solid	5035	
880-22037-9	S-1 (4')	Total/NA	Solid	5035	
880-22037-10	S-1 (5')	Total/NA	Solid	5035	
880-22037-11	S-2 (0-1')	Total/NA	Solid	5035	
880-22037-12	S-2 (1.5')	Total/NA	Solid	5035	
880-22037-13	S-2 (2')	Total/NA	Solid	5035	
880-22037-14	S-2 (3')	Total/NA	Solid	5035	
880-22037-15	S-2 (4')	Total/NA	Solid	5035	
880-22037-16	S-2 (5')	Total/NA	Solid	5035	
880-22037-17	S-3 (0-1')	Total/NA	Solid	5035	
880-22037-18	S-3 (1.5')	Total/NA	Solid	5035	
880-22037-19	S-3 (2')	Total/NA	Solid	5035	
880-22037-20	S-3 (3')	Total/NA	Solid	5035	
MB 880-40819/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40819/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40819/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22037-1 MS	H-1 (0-1')	Total/NA	Solid	5035	
880-22037-1 MSD	H-1 (0-1')	Total/NA	Solid	5035	

### Prep Batch: 40824

Lab Sample ID

MB 880-41251/5-A

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-23	S-4 (0-1')	Total/NA	Solid	5035	
880-22037-24	S-4 (1.5')	Total/NA	Solid	5035	
880-22037-25	S-4 (2')	Total/NA	Solid	5035	
880-22037-26	S-4 (3')	Total/NA	Solid	5035	
MB 880-40824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22119-A-6-A MS	Matrix Spike	Total/NA	Solid	5035	
880-22119-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Eurofins Midland

Prep Type

Total/NA

Matrix

Solid

Method

5035

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Prep Batch

Client Sample ID

Method Blank

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

## **GC VOA**

### Analysis Batch: 41323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	8021B	40819
880-22037-2	H-2 (0-1')	Total/NA	Solid	8021B	40819
880-22037-3	H-3 (0-1')	Total/NA	Solid	8021B	40819
880-22037-4	H-4 (0-1')	Total/NA	Solid	8021B	40819
880-22037-5	S-1 (0-1')	Total/NA	Solid	8021B	40819
880-22037-6	S-1 (1.5')	Total/NA	Solid	8021B	40819
880-22037-7	S-1 (2')	Total/NA	Solid	8021B	40819
880-22037-8	S-1 (3')	Total/NA	Solid	8021B	40819
880-22037-9	S-1 (4')	Total/NA	Solid	8021B	40819
880-22037-10	S-1 (5')	Total/NA	Solid	8021B	40819
880-22037-11	S-2 (0-1')	Total/NA	Solid	8021B	40819
880-22037-12	S-2 (1.5')	Total/NA	Solid	8021B	40819
880-22037-13	S-2 (2')	Total/NA	Solid	8021B	40819
880-22037-14	S-2 (3')	Total/NA	Solid	8021B	40819
880-22037-15	S-2 (4')	Total/NA	Solid	8021B	40819
880-22037-16	S-2 (5')	Total/NA	Solid	8021B	40819
880-22037-17	S-3 (0-1')	Total/NA	Solid	8021B	40819
880-22037-18	S-3 (1.5')	Total/NA	Solid	8021B	40819
880-22037-19	S-3 (2')	Total/NA	Solid	8021B	40819
880-22037-20	S-3 (3')	Total/NA	Solid	8021B	40819
MB 880-40819/5-A	Method Blank	Total/NA	Solid	8021B	40819
MB 880-41251/5-A	Method Blank	Total/NA	Solid	8021B	41251
LCS 880-40819/1-A	Lab Control Sample	Total/NA	Solid	8021B	40819
LCSD 880-40819/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40819
880-22037-1 MS	H-1 (0-1')	Total/NA	Solid	8021B	40819
880-22037-1 MSD	H-1 (0-1')	Total/NA	Solid	8021B	40819

#### **Analysis Batch: 41352**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Total/NA	Solid	8021B	40812
880-22037-22	S-3 (5')	Total/NA	Solid	8021B	40812
MB 880-40812/5-A	Method Blank	Total/NA	Solid	8021B	40812
MB 880-41354/5-A	Method Blank	Total/NA	Solid	8021B	41354
LCS 880-40812/1-A	Lab Control Sample	Total/NA	Solid	8021B	40812
LCSD 880-40812/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40812
880-22036-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	40812
880-22036-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40812

### Prep Batch: 41354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41354/5-A	Method Blank	Total/NA	Solid	5035	

### Analysis Batch: 41419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-23	S-4 (0-1')	Total/NA	Solid	8021B	40824
880-22037-24	S-4 (1.5')	Total/NA	Solid	8021B	40824
880-22037-25	S-4 (2')	Total/NA	Solid	8021B	40824
880-22037-26	S-4 (3')	Total/NA	Solid	8021B	40824
MB 880-40824/5-A	Method Blank	Total/NA	Solid	8021B	40824
LCS 880-40824/1-A	Lab Control Sample	Total/NA	Solid	8021B	40824
LCSD 880-40824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40824

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

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## **GC VOA (Continued)**

### **Analysis Batch: 41419 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-A-6-A MS	Matrix Spike	Total/NA	Solid	8021B	40824
880-22119-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40824

### Analysis Batch: 41467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-22037-1	H-1 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-2	H-2 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-3	H-3 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-4	H-4 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-5	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-6	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-22037-7	S-1 (2')	Total/NA	Solid	Total BTEX	
880-22037-8	S-1 (3')	Total/NA	Solid	Total BTEX	
880-22037-9	S-1 (4')	Total/NA	Solid	Total BTEX	
880-22037-10	S-1 (5')	Total/NA	Solid	Total BTEX	
880-22037-11	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-12	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-22037-13	S-2 (2')	Total/NA	Solid	Total BTEX	
880-22037-14	S-2 (3')	Total/NA	Solid	Total BTEX	
880-22037-15	S-2 (4')	Total/NA	Solid	Total BTEX	
880-22037-16	S-2 (5')	Total/NA	Solid	Total BTEX	
880-22037-17	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-18	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-22037-19	S-3 (2')	Total/NA	Solid	Total BTEX	
880-22037-20	S-3 (3')	Total/NA	Solid	Total BTEX	
880-22037-21	S-3 (4')	Total/NA	Solid	Total BTEX	
880-22037-22	S-3 (5')	Total/NA	Solid	Total BTEX	
880-22037-23	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-22037-24	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-22037-25	S-4 (2')	Total/NA	Solid	Total BTEX	
880-22037-26	S-4 (3')	Total/NA	Solid	Total BTEX	

### **GC Semi VOA**

#### Prep Batch: 41024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Total/NA	Solid	8015NM Prep	
880-22037-22	S-3 (5')	Total/NA	Solid	8015NM Prep	
880-22037-23	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-24	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-22037-25	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-22037-26	S-4 (3')	Total/NA	Solid	8015NM Prep	
MB 880-41024/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41024/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41024/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22110-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-22110-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 41104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Total/NA	Solid	8015B NM	41024

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## **Analysis Batch: 41104 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-22	S-3 (5')	Total/NA	Solid	8015B NM	41024
880-22037-23	S-4 (0-1')	Total/NA	Solid	8015B NM	41024
880-22037-24	S-4 (1.5')	Total/NA	Solid	8015B NM	41024
880-22037-25	S-4 (2')	Total/NA	Solid	8015B NM	41024
880-22037-26	S-4 (3')	Total/NA	Solid	8015B NM	41024
MB 880-41024/1-A	Method Blank	Total/NA	Solid	8015B NM	41024
LCS 880-41024/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41024
LCSD 880-41024/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41024
880-22110-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	41024
880-22110-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41024

## Analysis Batch: 41106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-2	H-2 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-3	H-3 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-4	H-4 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-5	S-1 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-6	S-1 (1.5')	Total/NA	Solid	8015B NM	41158
880-22037-7	S-1 (2')	Total/NA	Solid	8015B NM	41158
880-22037-8	S-1 (3')	Total/NA	Solid	8015B NM	41158
880-22037-9	S-1 (4')	Total/NA	Solid	8015B NM	41158
880-22037-10	S-1 (5')	Total/NA	Solid	8015B NM	41158
880-22037-11	S-2 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-12	S-2 (1.5')	Total/NA	Solid	8015B NM	41158
880-22037-13	S-2 (2')	Total/NA	Solid	8015B NM	41158
880-22037-14	S-2 (3')	Total/NA	Solid	8015B NM	41158
880-22037-15	S-2 (4')	Total/NA	Solid	8015B NM	41158
880-22037-16	S-2 (5')	Total/NA	Solid	8015B NM	41158
880-22037-17	S-3 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-18	S-3 (1.5')	Total/NA	Solid	8015B NM	41158
880-22037-19	S-3 (2')	Total/NA	Solid	8015B NM	41158
880-22037-20	S-3 (3')	Total/NA	Solid	8015B NM	41158
MB 880-41158/1-A	Method Blank	Total/NA	Solid	8015B NM	41158
LCS 880-41158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41158
LCSD 880-41158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41158
880-22037-1 MS	H-1 (0-1')	Total/NA	Solid	8015B NM	41158
880-22037-1 MSD	H-1 (0-1')	Total/NA	Solid	8015B NM	41158

### Prep Batch: 41158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-2	H-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-3	H-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-4	H-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-5	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-6	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-22037-7	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-22037-8	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-22037-9	S-1 (4')	Total/NA	Solid	8015NM Prep	
880-22037-10	S-1 (5')	Total/NA	Solid	8015NM Prep	

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

Co, NM

## GC Semi VOA (Continued)

## Prep Batch: 41158 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-11	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-12	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-22037-13	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-22037-14	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-22037-15	S-2 (4')	Total/NA	Solid	8015NM Prep	
880-22037-16	S-2 (5')	Total/NA	Solid	8015NM Prep	
880-22037-17	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-18	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-22037-19	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-22037-20	S-3 (3')	Total/NA	Solid	8015NM Prep	
MB 880-41158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22037-1 MS	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-22037-1 MSD	H-1 (0-1')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 41229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Total/NA	Solid	8015 NM	
880-22037-2	H-2 (0-1')	Total/NA	Solid	8015 NM	
880-22037-3	H-3 (0-1')	Total/NA	Solid	8015 NM	
880-22037-4	H-4 (0-1')	Total/NA	Solid	8015 NM	
880-22037-5	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-22037-6	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-22037-7	S-1 (2')	Total/NA	Solid	8015 NM	
880-22037-8	S-1 (3')	Total/NA	Solid	8015 NM	
880-22037-9	S-1 (4')	Total/NA	Solid	8015 NM	
880-22037-10	S-1 (5')	Total/NA	Solid	8015 NM	
880-22037-11	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-22037-12	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-22037-13	S-2 (2')	Total/NA	Solid	8015 NM	
880-22037-14	S-2 (3')	Total/NA	Solid	8015 NM	
880-22037-15	S-2 (4')	Total/NA	Solid	8015 NM	
880-22037-16	S-2 (5')	Total/NA	Solid	8015 NM	
880-22037-17	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-22037-18	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-22037-19	S-3 (2')	Total/NA	Solid	8015 NM	
880-22037-20	S-3 (3')	Total/NA	Solid	8015 NM	
880-22037-21	S-3 (4')	Total/NA	Solid	8015 NM	
880-22037-22	S-3 (5')	Total/NA	Solid	8015 NM	
880-22037-23	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-22037-24	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-22037-25	S-4 (2')	Total/NA	Solid	8015 NM	
880-22037-26	S-4 (3')	Total/NA	Solid	8015 NM	

## HPLC/IC

### Leach Batch: 40690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-1	H-1 (0-1')	Soluble	Solid	DI Leach	
880-22037-2	H-2 (0-1')	Soluble	Solid	DI Leach	

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Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

## **HPLC/IC** (Continued)

## Leach Batch: 40690 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-22037-3	H-3 (0-1')	Soluble	Solid	DI Leach	_
880-22037-4	H-4 (0-1')	Soluble	Solid	DI Leach	
880-22037-5	S-1 (0-1')	Soluble	Solid	DI Leach	
880-22037-6	S-1 (1.5')	Soluble	Solid	DI Leach	
880-22037-7	S-1 (2')	Soluble	Solid	DI Leach	
880-22037-8	S-1 (3')	Soluble	Solid	DI Leach	
880-22037-9	S-1 (4')	Soluble	Solid	DI Leach	
880-22037-10	S-1 (5')	Soluble	Solid	DI Leach	
880-22037-11	S-2 (0-1')	Soluble	Solid	DI Leach	
880-22037-12	S-2 (1.5')	Soluble	Solid	DI Leach	
880-22037-13	S-2 (2')	Soluble	Solid	DI Leach	
880-22037-14	S-2 (3')	Soluble	Solid	DI Leach	
880-22037-15	S-2 (4')	Soluble	Solid	DI Leach	
880-22037-16	S-2 (5')	Soluble	Solid	DI Leach	
880-22037-17	S-3 (0-1')	Soluble	Solid	DI Leach	
880-22037-18	S-3 (1.5')	Soluble	Solid	DI Leach	
880-22037-19	S-3 (2')	Soluble	Solid	DI Leach	
880-22037-20	S-3 (3')	Soluble	Solid	DI Leach	
MB 880-40690/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40690/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40690/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22037-1 MS	H-1 (0-1')	Soluble	Solid	DI Leach	
880-22037-1 MSD	H-1 (0-1')	Soluble	Solid	DI Leach	
880-22037-11 MS	S-2 (0-1')	Soluble	Solid	DI Leach	
880-22037-11 MSD	S-2 (0-1')	Soluble	Solid	DI Leach	

## Leach Batch: 40727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Soluble	Solid	DI Leach	
880-22037-22	S-3 (5')	Soluble	Solid	DI Leach	
880-22037-23	S-4 (0-1')	Soluble	Solid	DI Leach	
880-22037-24	S-4 (1.5')	Soluble	Solid	DI Leach	
880-22037-25	S-4 (2')	Soluble	Solid	DI Leach	
880-22037-26	S-4 (3')	Soluble	Solid	DI Leach	
MB 880-40727/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40727/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40727/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22037-24 MS	S-4 (1.5')	Soluble	Solid	DI Leach	
880-22037-24 MSD	S-4 (1.5')	Soluble	Solid	DI Leach	

#### Leach Batch: 40834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40834/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40834/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40834/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22037-2 MS	H-2 (0-1')	Soluble	Solid	DI Leach	
880-22037-2 MSD	H-2 (0-1')	Soluble	Solid	DI Leach	

#### Analysis Batch: 40840

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-21	S-3 (4')	Soluble	Solid	300.0	40727

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

## **HPLC/IC** (Continued)

## Analysis Batch: 40840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22037-22	S-3 (5')	Soluble	Solid	300.0	40727
880-22037-23	S-4 (0-1')	Soluble	Solid	300.0	40727
880-22037-24	S-4 (1.5')	Soluble	Solid	300.0	40727
880-22037-25	S-4 (2')	Soluble	Solid	300.0	40727
880-22037-26	S-4 (3')	Soluble	Solid	300.0	40727
MB 880-40727/1-A	Method Blank	Soluble	Solid	300.0	40727
LCS 880-40727/2-A	Lab Control Sample	Soluble	Solid	300.0	40727
LCSD 880-40727/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40727
880-22037-24 MS	S-4 (1.5')	Soluble	Solid	300.0	40727
880-22037-24 MSD	S-4 (1.5')	Soluble	Solid	300.0	40727

## Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-22037-1	H-1 (0-1')	Soluble	Solid	300.0	40690
880-22037-2	H-2 (0-1')	Soluble	Solid	300.0	40690
880-22037-3	H-3 (0-1')	Soluble	Solid	300.0	40690
880-22037-4	H-4 (0-1')	Soluble	Solid	300.0	40690
880-22037-5	S-1 (0-1')	Soluble	Solid	300.0	40690
880-22037-6	S-1 (1.5')	Soluble	Solid	300.0	40690
880-22037-7	S-1 (2')	Soluble	Solid	300.0	40690
880-22037-8	S-1 (3')	Soluble	Solid	300.0	40690
880-22037-9	S-1 (4')	Soluble	Solid	300.0	40690
880-22037-10	S-1 (5')	Soluble	Solid	300.0	40690
880-22037-11	S-2 (0-1')	Soluble	Solid	300.0	40690
380-22037-12	S-2 (1.5')	Soluble	Solid	300.0	40690
380-22037-13	S-2 (2')	Soluble	Solid	300.0	40690
380-22037-14	S-2 (3')	Soluble	Solid	300.0	40690
880-22037-15	S-2 (4')	Soluble	Solid	300.0	40690
880-22037-16	S-2 (5')	Soluble	Solid	300.0	40690
880-22037-17	S-3 (0-1')	Soluble	Solid	300.0	40690
880-22037-18	S-3 (1.5')	Soluble	Solid	300.0	40690
880-22037-19	S-3 (2')	Soluble	Solid	300.0	40690
880-22037-20	S-3 (3')	Soluble	Solid	300.0	40690
MB 880-40690/1-A	Method Blank	Soluble	Solid	300.0	40690
_CS 880-40690/2-A	Lab Control Sample	Soluble	Solid	300.0	40690
LCSD 880-40690/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40690
380-22037-1 MS	H-1 (0-1')	Soluble	Solid	300.0	40690
880-22037-1 MSD	H-1 (0-1')	Soluble	Solid	300.0	40690
880-22037-11 MS	S-2 (0-1')	Soluble	Solid	300.0	40690
880-22037-11 MSD	S-2 (0-1')	Soluble	Solid	300.0	40690

### Analysis Batch: 40952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40834/1-A	Method Blank	Soluble	Solid	300.0	40834
LCS 880-40834/2-A	Lab Control Sample	Soluble	Solid	300.0	40834
LCSD 880-40834/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40834
880-22037-2 MS	H-2 (0-1')	Soluble	Solid	300.0	40834
880-22037-2 MSD	H-2 (0-1')	Soluble	Solid	300.0	40834

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Lab Sample ID: 880-22037-1

Matrix: Solid

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

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/08/22 22:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 21:24	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 17:19	CH	EET MID

Client Sample ID: H-2 (0-1')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-2

**Matrix: Solid** 

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.02 g 5 mL 40819 12/01/22 15:15 MNR EET MID Total/NA 8021B 5 mL 12/08/22 23:03 **EET MID** Analysis 1 5 mL 41323 MNR Total/NA Total BTEX 41467 12/09/22 13:21 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 41229 12/07/22 10:55 SM **EET MID** Total/NA 41158 12/06/22 11:28 Prep 8015NM Prep 10.02 g 10 mL DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 41106 12/06/22 22:28 ΑJ **EET MID** 11/30/22 12:47 Soluble KS Leach DI Leach 5.05 g 50 mL 40690 EET MID Soluble Analysis 300.0 50 mL 50 mL 40920 12/02/22 17:43 СН **EET MID** 

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

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-3

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/08/22 23:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 22:50	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 17:52	CH	EET MID

Client Sample ID: H-4 (0-1')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

12/02/22 17:52	СП	EET MID
Lab Samp	ole ID:	880-22037-4
		Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/08/22 23:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID

#### **Lab Chronicle**

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Client Sample ID: H-4 (0-1')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09 Lab Sample ID: 880-22037-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 23:12	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 18:00	CH	EET MID

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

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 5.03 g 5 mL 40819 12/01/22 15:15 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 41323 12/09/22 00:04 MNR **EET MID** 1 Total/NA Total BTEX Analysis 1 41467 12/09/22 13:21 SM **EET MID** Total/NA Analysis 8015 NM 41229 12/07/22 10:55 SM EET MID Total/NA Prep 8015NM Prep 10.00 g 10 mL 41158 12/06/22 11:28 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 41106 12/06/22 23:33 AJ **EET MID** 1 uL Soluble Leach DI Leach 5.02 g 50 mL 40690 11/30/22 12:47 KS **EET MID** Soluble Analysis 300.0 1 50 mL 50 mL 40920 12/02/22 18:08 СН **EET MID** 

Client Sample ID: S-1 (1.5')

Date Collected: 11/29/22 00:00

Lab Sample ID: 880-22037-6

Matrix: Solid

Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 00:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 23:55	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 18:32	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-22037-7

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 00:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	41158 41106	12/06/22 11:28 12/07/22 00:17	DM AJ	EET MID EET MID

**Eurofins Midland** 

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### Lab Chronicle

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

Client Sample ID: S-1 (2')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-7

Matrix: Solid

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Soluble	Leach	DI Leach			5.01 g	50 mL	40690	11/30/22 12:47	KS	EET MID
l	Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 18:40	CH	EET MID

Client Sample ID: S-1 (3') Lab Sample ID: 880-22037-8

Date Collected: 11/29/22 00:00 **Matrix: Solid** 

Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 00:39	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 18:48	CH	EET MID

Client Sample ID: S-1 (4') Lab Sample ID: 880-22037-9

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 01:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 01:00	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 18:56	CH	EET MID

Client Sample ID: S-1 (5') Lab Sample ID: 880-22037-10

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 01:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 01:22	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 19:05	CH	EET MID

**Eurofins Midland** 

Job ID: 880-22037-1

SDG: Eddy Co, NM

Client Sample ID: S-2 (0-1') Lab Sample ID: 880-22037-11 Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 03:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 02:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 19:13	CH	EET MID

Client Sample ID: S-2 (1.5') Lab Sample ID: 880-22037-12 Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 03:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 02:28	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 19:37	CH	EET MID

Client Sample ID: S-2 (2') Lab Sample ID: 880-22037-13 **Matrix: Solid** 

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 03:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 02:49	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 19:45	CH	EET MID

Client Sample ID: S-2 (3') Lab Sample ID: 880-22037-14

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 04:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID

**Eurofins Midland** 

## **Lab Chronicle**

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Client Sample ID: S-2 (3')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 03:11	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40920	12/02/22 20:10	CH	EET MID

Client Sample ID: S-2 (4')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-15

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 04:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 03:33	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:18	CH	EET MID

Client Sample ID: S-2 (5')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-16

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 04:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 03:54	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:26	CH	EET MID

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

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Lab Sa	ample ID:	880-22037-17	
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**Matrix: Solid** 

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	41158 41106	12/06/22 11:28 12/07/22 04:16	DM AJ	EET MID EET MID

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

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

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:34	CH	EET MID

Client Sample ID: S-3 (1.5') Lab Sample ID: 880-22037-18

Date Collected: 11/29/22 00:00

**Matrix: Solid** 

Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 05:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 04:38	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:42	CH	EET MID

Client Sample ID: S-3 (2') Lab Sample ID: 880-22037-19

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 05:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 04:59	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:50	CH	EET MID

Client Sample ID: S-3 (3') Lab Sample ID: 880-22037-20

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40819	12/01/22 15:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41323	12/09/22 06:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41158	12/06/22 11:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/07/22 05:21	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	40690	11/30/22 12:47	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40920	12/02/22 20:59	CH	EET MID

**Eurofins Midland** 

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

Client Sample ID: S-3 (4')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-21

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 10:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 14:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		5			40840	12/01/22 23:00	SMC	EET MID

Client Sample ID: S-3 (5') Lab Sample ID: 880-22037-22

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 11:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 14:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		5			40840	12/01/22 23:07	SMC	EET MID

Client Sample ID: S-4 (0-1') Lab Sample ID: 880-22037-23 Date Collected: 11/29/22 00:00 **Matrix: Solid** 

Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40824	12/02/22 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 15:10	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		1			40840	12/01/22 23:13	SMC	EET MID

Client Sample ID: S-4 (1.5') Lab Sample ID: 880-22037-24

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40824	12/02/22 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/12/22 15:15	SM	EET MID

**Eurofins Midland** 

Page 53 of 61

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Client Sample ID: S-4 (1.5')

Date Collected: 11/29/22 00:00 Date Received: 11/30/22 09:09

Lab Sample ID: 880-22037-24

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 15:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		1			40840	12/01/22 23:20	SMC	EET MID

Lab Sample ID: 880-22037-25

Client Sample ID: S-4 (2') Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 16:17	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		1			40840	12/01/22 23:40	SMC	EET MID

Client Sample ID: S-4 (3') Lab Sample ID: 880-22037-26 **Matrix: Solid** 

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41467	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41229	12/07/22 09:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41024	12/05/22 11:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41104	12/06/22 16:39	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40727	11/30/22 15:52	SMC	EET MID
Soluble	Analysis	300.0		1			40840	12/01/22 23:46	SMC	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: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

## **Laboratory: Eurofins Midland**

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

thority		Program	Identification Number	Expiration Date
kas		NELAP	T104704400-22-24	06-30-23
The following analytes	are included in this repo	rt, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
the agency does not of	fer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
300.0		Solid	Chloride	
8015 NM		Solid	Total TPH	
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over	C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GF	RO)-C6-C10
8015B NM	8015NM Prep	Solid	Oll Range Organics (Over C28	8-C36)
8021B	5035	Solid	Benzene	
8021B	5035	Solid	Ethylbenzene	
8021B	5035	Solid	m-Xylene & p-Xylene	
8021B	5035	Solid	o-Xylene	
8021B	5035	Solid	Toluene	
8021B	5035	Solid	Xylenes, Total	
Total BTEX		Solid	Total BTEX	

## **Method Summary**

Client: Carmona Resources

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1

SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

#### **Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

**Eurofins Midland** 

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## **Sample Summary**

Client: Carmona Resources

880-22037-26

S-4 (3')

Project/Site: Irwin 23-14 Federal Battery

Job ID: 880-22037-1 SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22037-1	H-1 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-2	H-2 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-3	H-3 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-4	H-4 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-5	S-1 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-6	S-1 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-7	S-1 (2')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-8	S-1 (3')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-9	S-1 (4')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-10	S-1 (5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-11	S-2 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-12	S-2 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-13	S-2 (2')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-14	S-2 (3')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-15	S-2 (4')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-16	S-2 (5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-17	S-3 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-18	S-3 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-19	S-3 (2')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-20	S-3 (3')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-21	S-3 (4')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-22	S-3 (5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-23	S-4 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-24	S-4 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22037-25	S-4 (2')	Solid	11/29/22 00:00	11/30/22 09:09

Solid

11/29/22 00:00

11/30/22 09:09

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Chair of Custody

Work Order No: 37037

<b>O</b> 5 &		Relinguished by			S-1 (5')	S-1 (4')	S-1 (3')	S-1 (2')	S-1 (1 5')	S-1 (0-1')	H-4 (0-1')	H-3 (0-1')	H-2 (0-1')	H-1 (0-1')	Sample Identification	Total Containers	Sample Custody Seals	Cooler Custody Seals	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name.	Project Location	Project Number	Project Name.	Phone	late ZIP	Address	Company Name.	Project Manager	
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Revised Date 05012020 Rev 2020 1

Chair of Custody

Work Order No: 200

Project Manager	Ashton Thielke				Bill to (if different)	ne)	Lacı Luig	Luig								~	Vork C	rder C	Work Order Comments	nts			
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Revised Date 05012020 Rev 2020 1

Chain of Custody

Work Order No: 22037

5		Relinquished by:						S-4 (3')	S-4 (2')	S-4 (1 5')	S-4 (0-1")	S-3 (5')	S-3 (4')	Sample Identification	Total Containers	Sample Custody Seals	Cooler Custody Seals.	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name	Project Location	Project Number	Project Name.	Phone	City, State ZIP	Address	Company Name.	Project Manager
77774444		(Signature)			The state of the s			<u>٣</u>	2")	5')	1)	5')	t.)	tification		Yes	Yes	Yes				Ed		Irwin 23-1	432-813-5347	Midland, TX 79701	310 West Wall Ste 415	Carmona Resources	Ashton Thielke
-		7						11/29/2022	11/29/2022	11/29/2022	11/29/2022	11/29/2022	11/29/2022	Date		No N/A	No N/A	No No	Temp Blank.		АТ	Eddy Co, NM	1178	Irwin 23-14 Federal Battery		701	Ste 415	urces	
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		Relinquished by (Signature)		Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com																				ANALYSIS REQUEST	terra.com		t Suite 600		
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		Date/Time							22037	Loc: 880 —				Sample Comments	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH Zn	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>	NaHSO, NABIS	, HP				NO DI Water: H-O	Preservative Codes	Other	☐RRP ☐ Level IV ☐		RRC uperfund	ments

Revised Date 05012020 Rev 2020 1

## **Login Sample Receipt Checklist**

Client: Carmona Resources

Job Number: 880-22037-1

SDG Number: Eddy Co, NM

List Source: Eurofins Midland

Login Number: 22037 List Number: 1

Creator: Rodriguez, Leticia

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	

1



January 30, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: IRWIN 23 - 14 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/27/23 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRW: Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 1 (11') (H230404-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	101 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

A ..... I ..... . J D. ... 711

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Celey D. Keine



#### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRWI Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS - 2 (11') (H230404-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRWI Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: CS - 3 (11') (H230404-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	< 0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	01/27/2023	ND	400	100	400	3.92	QM-07
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRWI Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: CS - 4 (11') (H230404-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	72.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.1	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: Project Number: 1178

Project Location: CIMAREX - EDDY CO NM Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

#### Sample ID: CS - 5 (7') (H230404-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 01/27/2023 Reported:

01/30/2023 IRWIN 23 - 14 FEDERAL BATTERY

Project Name: Project Number: 1178

Project Location: CIMAREX - EDDY CO NM Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: CS - 6 (7') (H230404-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: CS - 7 (7') (H230404-07)

Project Name:

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Number: 1178

Project Location: CIMAREX - EDDY CO NM Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: CS - 8 (7') (H230404-08)

Project Name:

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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#### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 01/27/2023 Reported:

Sampling Date: 01/27/2023 01/30/2023 Sampling Type: Soil

Project Name:

IRWIN 23 - 14 FEDERAL BATTERY Sampling Condition: Cool & Intact Project Number: 1178 Sample Received By: Tamara Oldaker

Project Location: CIMAREX - EDDY CO NM

#### Sample ID: CS - 9 (7') (H230404-09)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 % 71.5-13		4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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#### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRWI Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: SW - 1 (11') (H230404-10)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	18						

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### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRWI Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SW - 2 (11') (H230404-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	178	89.0	200	3.19	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	174	86.8	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Number: 1178

Project Name:

Project Location: CIMAREX - EDDY CO NM Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: SW - 3 (11') (H230404-12)

BTEX 8021B	mg/	'kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Number: 1178

Project Name:

RTFY 8021R

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SW - 4 (11') (H230404-13)

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

Applyzod By: 14

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### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRWI Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SW - 5 (11') (H230404-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	< 0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRWI Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SW - 6 (11') (H230404-15)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	< 0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

01/30/2023 IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRWI Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SW - 7 (11') (H230404-16)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	< 0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRWI Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: SW - 8 (4') (H230404-17)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	18						

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### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Number: 1178

Project Name:

Project Location: CIMAREX - EDDY CO NM Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: SW - 9 (7') (H230404-18)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

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### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: IRWI Project Number: 1178

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: SW - 10 (7') (H230404-19)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: Project Number: 1178

Project Location: CIMAREX - EDDY CO NM Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: SW - 11 (7') (H230404-20)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.92	96.0	2.00	3.28	
Toluene*	<0.050	0.050	01/27/2023	ND	2.15	107	2.00	4.50	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.51	108	6.00	3.63	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 %	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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### Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST SUITE 415 MIDLAND TX, 79701 Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Name: Project Number: 1178

Project Location: CIMAREX - EDDY CO NM Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: SW - 12 (7') (H230404-21)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.96	98.0	2.00	0.445	
Toluene*	<0.050	0.050	01/27/2023	ND	2.10	105	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.05	102	2.00	1.18	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.39	107	6.00	2.46	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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### Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST SUITE 415
MIDLAND TX, 79701
Fax To:

Received: 01/27/2023 Reported: 01/30/2023

IRWIN 23 - 14 FEDERAL BATTERY

Project Number: 1178

Project Name:

RTFY 8021R

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 01/27/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SW - 13 (7') (H230404-22)

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	1.96	98.0	2.00	0.445	
Toluene*	<0.050	0.050	01/27/2023	ND	2.10	105	2.00	2.12	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.05	102	2.00	1.18	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.39	107	6.00	2.46	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2023	ND	190	95.2	200	2.03	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	185	92.7	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

Applyzod By: 1H /

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### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Project Manager: Company Name:

Bill to: (if different)

Company Name:

Laci Luig

Cimarex Energy

600 N Marienfield St, Suite 600

Ashton Thielke
Carmona Resources
310 West Wall Ste. 415

# Chain of Custody

	City, State ZIP:	Midland, TX 79701	701			City, State ZIP:		Midl	and, TX	Midland, TX 79701				_	Reporting:Level III Level III	ng:Leve		e III	LIST/UST		RRP	Lev	Level IV	-
	Phone:	432-813-5347			Email:	Email:  aci.luig@coterra.com & ashton.thielke@coterra.com	rra.com	& asht	on.thie	ke@co	terra.co	m			Delivera	Deliverables: EDD	00		ADaPT		Other:			1
	Project Name:	Irwin 23-1	Irwin 23-14 Federal Battery	tery	Turn	Turn Around						ANA	ANALYSIS REQUEST	REQU	EST					Pr	Preservative Codes	tive Co	des	10000
	Project Number:		1178		☐ Routine	☑ Rush	Pres. Code													None: NO	ō	DI Wa	DI Water: H <sub>2</sub> O	
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	Sample Custody Seals	Yes	V	Temperati	Temperature Reading:	4,3 &		В	5M (	Ch										Zn Acet	Zn Acetate+NaOH: Zn	)H: Zn		
	Total Containers:		,	Corrected	Corrected Temperature:	3.70			801					70	10					NaOH+	NaOH+Ascorbic Acid: SAPC	Acid: S	APC	
	Sample Identification	itification	Date	Time	Soil	Water Comp	p Cont		TPH							- 40	1 the			S	Sample Comments	Comme	ents	
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11-	CS-2 (11')	11")	1/27/2023		X	Comp	p 1	×	×	×														_
Cl	CS-3 (11')	11")	1/27/2023		×	Comp	р 1	×	×	×														
1	CS-4 (11')	11")	1/27/2023		×	Comp	p 1	×	×	×														_
S	CS-5 (7')	(7')	1/27/2023		×	Comp	p 1	×	×	×														_
01	CS-6 (7')	(7')	1/27/2023		×	Comp	p 1	×	×	×												,		
1	CS-7 (7')	(7')	1/27/2023		×	Comp	p 1	×	×	×														
20.	CS-8 (7')	(7')	1/27/2023		×	Comp	p 1	×	×	×						_								_
D	CS-9 (7")	(7')	1/27/2023		×	Comp	p 1	×	×	×														_
0	SW-1 (11')	(11")	1/27/2023		×	Comp	p 1	×	×	×	H				_	-	-							
		,		Please	end results	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	@carmo	nares	ources	s.com a	nd mc	armona	@carr	nonare	sourc	es.cor	3							
	Relinquished by:	: (Signature)	/	Received by:	by: (Signature)	re) /		Date/Time	Time		Relinquish	quished	ed by: (Signature)	gnatur	e)	Re	Received by: (Signature)	by: (S	ignatu	re)		Date/Time	ime	100000
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State of Project:				
Reporting:Level III  Level III  ST/UST  RRP  Level IV	□ST/UST	RRP	Level IV	
				_

730 HO4

Work Order No: \_

Page 25 of 27

Project Manager: Company Name:

Ashton Thielke
Carmona Resources

310 West Wall Ste. 415

Bill to: (if different)
Company Name:

600 N Marienfield St, Suite 600

State of Project:

Laci Luig Cimarex Energy

# Chain of Custody

Work O
rder No:
F
H. C.
7

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		1	Reinguished by: (	2	***	,		SW-11 (7')	SW-10 (7')	SW-9 (7")	SW-8 (4")	SW-7 (11')	SW-6 (11')	SW-5 (11')	SW-4 (11')	SW-3 (11')	SW-2 (11')		Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location	Project Number:	Project Name:		ale LIF.	
			ed by: (Signature)						7)	3		1)	1)	1)	1)	1")	1)		ification		Yes	Yes	Yes				Edo		Irwin 23-1	432-813-534/	ASS SAS FSAS	Maidland TV 70
		10011	F					1/27/2023	1/27/2023	1/27/2023	1/27/2023	1/27/2023	1/27/2023	1/27/2023	1/27/2023	1/27/2023	1/27/2023	Date			No NIA	NO (N/A)	No	Temp Blank:		AT	Eddy Co, NM	1178	Irwin 23-14 Federal Battery		701	40.4
		WYD)	Received b				Please se											111111111111111111111111111111111111111	!	Corrected T	Temperature Reading:	Correction Factor.	Thermometer ID:	Yes No					tery			
		alde	Received by: (Signature)				Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	×	×	×	×	×	×	×	×	×	×	SOII	2	Corrected Temperature:	e Reading:	Factor:	ter ID:	Wet Ice:	lab, if rece	TAT starts the	Due Date:	☐ Routine	Tun	Email		
	(	" Media	(e)				o cmoehrin	Comp	Co	Co	Co	Co	Co	Co	S	CC	CC	Water	0.000	3.7	2,4	1.0-1		Yes No	lab, if received by 4:30pm	day received by	24 hr	☑ Rush	Turn Around	Email:  aci.luig@coterra.com & ashton.thielke@coterra.com	City, State ZIP	
	-	10					g@carmo	mp 1	Comp 1	Comp 1	Comp 1	Comp 1	Comp 1	Comp 1	Comp 1	Comp 1	Comp 1	Comp Cont	Grab/ # of	C .	00	Pa		eter		v the		Pres.		oterra.com	P	
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			Received by: (Signature)								1	I										HOL								ADaPT	□ST/UST	
	5-		٣															Se		NaOH+Ascorbic Acid:	Zn Apotata+NaOl	Na co	NaHSO : NARIS	п <sub>2</sub> э0 <sub>4</sub> . п <sub>2</sub>	HCL: HC	C001: C001	acid. No	None: N	D			
	,																	imple (	10001011	Ascorbio	3. INDUC	. Naco	· NARI	п <sub>2</sub>		00		5	PSARV	Other:	RRP	
			Date/Time															Sample Comments	or word.	NaOH+Ascorbic Acid: SABC	J. 7	- 0	n	NaCH: Na	HNO	MeO	2 2	DIW	Preservative Codes	,1		
			ne															ents	2	ABC				H: Na	HNO3: HN	MeOH: Me	DI Walei. H <sub>2</sub> O	otor H	odos		Level IV	
																												,				_

Page 2 of 3

Work Order Comments

Program: UST/PST □PRP □ rownfields □RC □ perfund □

Page 26 of 27

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Sample Comments	Samp		-			*				7	Cont		Soil Water	Time S		Date	ification	Sample Identification	
Sipiro Acid. OAi O	TAGOTT NOON									PH 8	* .	Grahi	idea o	Composition of the conference					
NaOH+Ascorbic Acid: SABC	NaOH+Asco				_	_				8015		000	ature.	rected Tempe	1			Total Containers:	7
NaOH: Zn	Zn Acetate+NaOH: Zn			,				_	Chi	_		7.30	ding:	Temperature Reading:	1	- 1		Sample Custody Seals:	Sa
3SO <sub>3</sub>	H Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	HC.						_	orid		Pa	0.100	1	Correction Factor:	9	No VN/A	Yes	Cooler Custody Seals:	ဂ္ဂ
ABIS									le 45	8021 O + [	ram	0 .		m I		Yes No		Received Intact:	R
	H <sub>3</sub> PO <sub>4</sub> : HP								00		eter	Yes No		Yes No Wet Ice:		Temp Blank:		SAMPLE RECEIPT	S
NaOH: Na	H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>									+ M	rs	y 4:30pm	lab, if received by 4:30pm	- Ia				PO#:	P
HNO <sub>3</sub> : HN	HCL: HC							_		RO)		ceived by the	TAT starts the day received by the	TATs		AT		Sampler's Name:	SS
MeOH: Me	Cool: Cool											24 hr	ate:	Due Date:	M	Eddy Co, NM		Project Location	Pr
DI Water: H <sub>2</sub> O	None: NO										Pres. Code	☑ Rush		☐ Routine		1178		Project Number:	Pr
Preservative Codes	Prese				NALYSIS REQUEST	YSIS RE	ANAL					pur	Turn Around		ral Battery	Irwin 23-14 Federal Battery	Irwin 2	Project Name:	Pr
Other:	ADaPT Ot	AD.	EDD L	Deliverables: EDD	Deliv		B	terra.co	elke@ca	shton.thi	.com & a	laci.luig@coterra.com & ashton.thielke@coterra.com	Email: laci.l			47	432-813-5347	Phone:	P
RP ☐Level IV ☐	ST/UST RRP		9111   Le	Reporting:Level II Level III	Repo		·		X 79701	Midland, TX 79701	N	City, State ZIP:	City,			79701	Midland, TX 79701	City, State ZIP:	0
l			Ct:	State of Project:	State		00	t, Suite 600	ienfield S	600 N Marienfield St,	6	ess:	Address:		5	Vall Ste. 41	310 West Wall Ste. 415	Address:	A
₹C □lperfund □	ownfields RC	□PRP □ rownfields		Program: UST/PST	Prog				nergy	Cimarex Energy	0	Company Name:	Com			esources	Carmona Resources	Company Name:	0
	<b>Work Order Comments</b>	<b>Vork Orde</b>	V							Laci Luig		Bill to: (if different)	Bill t		7	lke	Ashton Thielke	Project Manager:	P
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 181943

### **CONDITIONS**

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd, Ste 300N	Action Number:
Midland, TX 79706	181943
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created I	By Condition	Condition Date
rhamle	We have received your closure report and final C-141 for Incident #NRM2017854640 IRWIN 23-14 FEDERAL BATTERY, thank you. This closure is approved.	6/1/2023