



SITE INFORMATION

Closure Report
MARKHAM #001 (06.09.2005)
Incident #: NCLB0523732298
Eddy County, New Mexico
Unit C Sec 22 T23S R28E
32.2971802°, -104.0764694°

Crude Oil & Produced Water Release

Point of Release: Truck driver failed to notice the tank was spilling over during off-loading activities.

Release Date: 06.09.2005

Volume Released: 3 Barrels of Crude Oil & 70 Barrels of Produced Water

Volume Recovered: 2 Barrels of Crude Oil & 68 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Chevron U.S.A., Inc.
6301 Deauville Blvd
Midland, Texas 79706

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



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November 1, 2024

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

Re: Closure Report
Markham #001 (06.09.2005)
Incident ID: NCLB0523732298
Chevron U.S.A., Inc.
Site Location: Unit C, S22, T23S, R28E
(Lat 32.2971802°, Long -104.0764694°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Chevron U.S.A., Inc. (Chevron), Carmona Resources, LLC has prepared this letter to document the Markham #001 site assessment and remediation activities. The site is located at 32.2971802°, -104.0764694° within Unit C, S22, T23S, R28E, in Eddy County, New Mexico (Figures 1A and Figure 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on June 9, 2005, caused by trucker failing to notice a tank was spilling over during off-loading activities. According to the initial C-141, the release resulted in approximately seventy (70) barrels of produced water and three (3) barrels of crude oil being released. Sixty-eight (68) barrels of produced water and two (2) barrels of crude oil were recovered. The impacted area was located on pad, shown in Figure 3. A C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, multiple water sources are within a 0.50-mile radius of the location. The closest well is approximately 0.08 miles Southwest of the site in S22, T23S, R28E and was drilled in 1980. The well has a reported depth to groundwater of 48' feet below the ground surface (ft bgs). A copy of the associated point of diversion 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

Initial Site Assessment

On May 2, 2022, a third-party environmental consultant performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) auger holes (AH-1 & AH-2) were installed to total depths ranging from surface to 4' below ground surface (bgs) inside the release area. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Figure 3A/B (historic/current view) for the sample locations.

Vertical Delineation

Due to a dense rock layer and the use of hand tools, vertical delineation was not achieved in the areas of AH-2. Refer to Table 1.

Secondary Site Assessment

On July 29, 2024, Carmona Resources performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, three (3) boreholes (BH-1 through BH-3) and four (4) horizontal sample points (H-1 through H-4) were advanced to depths ranging from the surface to 10' bgs inside and surrounding the area of concern. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Figure 3A/B (historic/current view) for the sample locations.

Vertical Delineation

Vertical delineation was not achieved in the area of BH-1 during the secondary site assessment but was delineated with confirmation floor samples during remediation. Vertical delineation was achieved in the areas of BH-2 & BH-3. Refer to Table 1.

Horizontal Delineation

Horizontal delineation was not achieved in the area of H-1 during the secondary site assessment but was delineated with confirmation sidewall samples during remediation. Horizontal delineation was achieved in the areas of H-2 through H-4. Refer to Table 1.

5.0 Remediation Activities

Between September 28, 2024, and October 4, 2024, 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 NMOCD portal on September 26, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of AH-1/BH-1 was excavated to a depth of 12.0' bgs. The areas of AH-2/BH-2, BH-3, and H-1 were excavated to a depth of 10.0' bgs. A total of eight (8) confirmation floor samples were collected (CS-1 through CS-8), 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 4500/300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

Once the remediation activities were completed, a composite sample of the backfill material provided by Lea Land Landfill was collected for laboratory analysis on October 10, 2024, before being utilized. Refer to Table 2. Approximately 1,460 square feet of contamination was remediated, resulting in 688 cubic yards of material excavated and transported offsite for proper disposal.

6.0 Reclamation Activities

Once the remediation activities were completed, the excavated area was backfilled on October 10, 2024, with clean caliche material to 2" below surface grade. The remaining 2" to surface gravel were backfilled with ¾" crushed stone to match the surrounding surface material of the business onsite. The landowner currently has a shop/warehouse and uses the remaining area as storage for the companies' vehicles and trailers.

On October 31, 2024, communication with the landowner and business owner of Press Energy Services, LLC, discussed the NMOCD request for landowner approval and satisfaction of the above-mentioned remediation activities as well as the omission of reclamation and reseeding of the area due to current business activities onsite. A variance is requested to 19.25.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) to the exception of the topsoil layer, reseeding, and vegetation portions of the code, due to the landowner using the entire property as an industrial business. The top layer of backfill material is not topsoil due to the landowner request to use crushed gravel to support structural integrity and erosion control to the businesses parking lot. Being that this site is completely covered in crushed gravel and is an active business parking lot, the landowner requested no reseeding to occur onsite. See Appendix C for email communication with landowner. See Appendix B for photos of the backfilled area and current site conditions.

7.0 Conclusions

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

Sincerely,

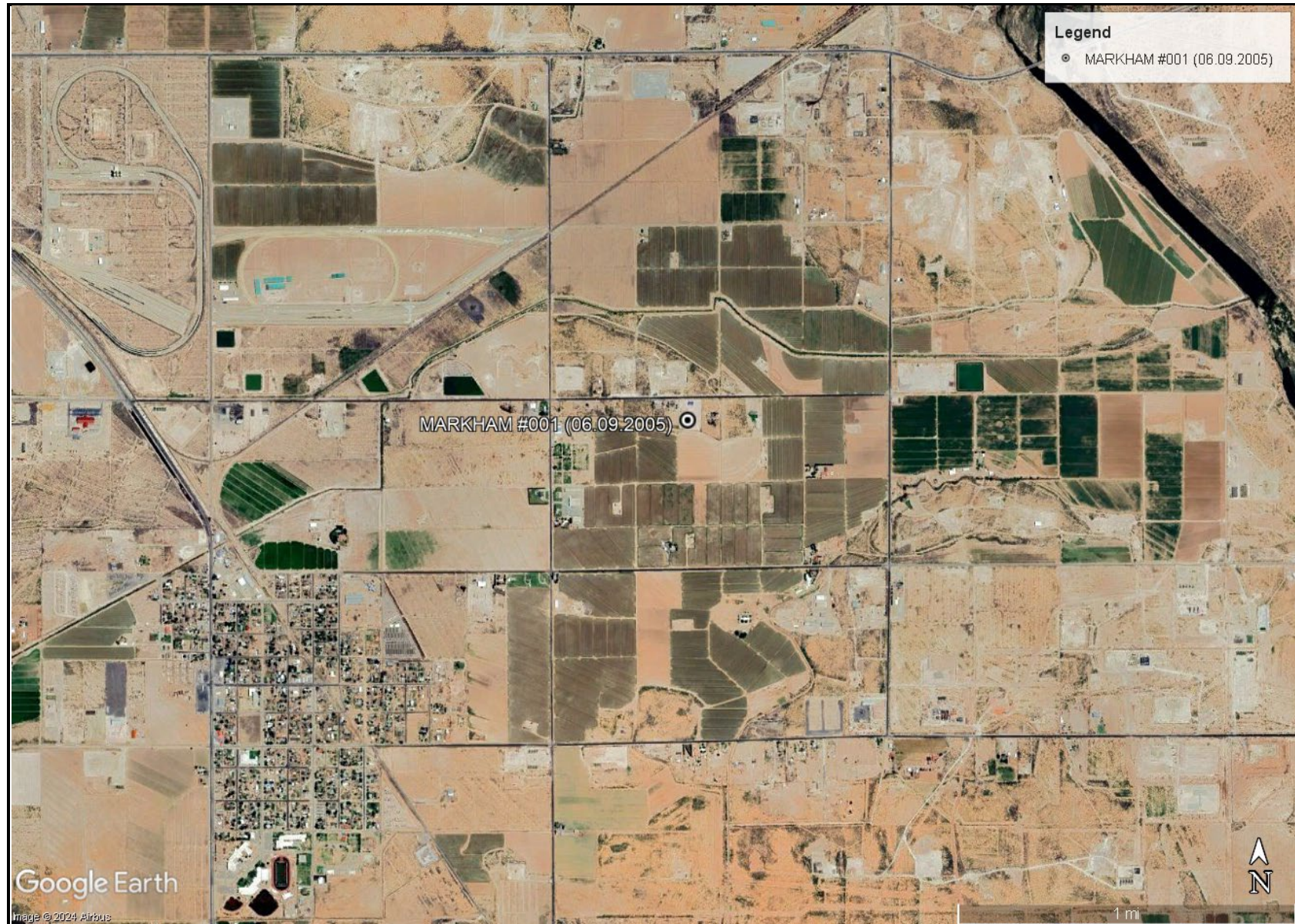
Carmona Resources, LLC

Ashton Thielke
Sr. Project Manager

FIGURES

CARMONA RESOURCES

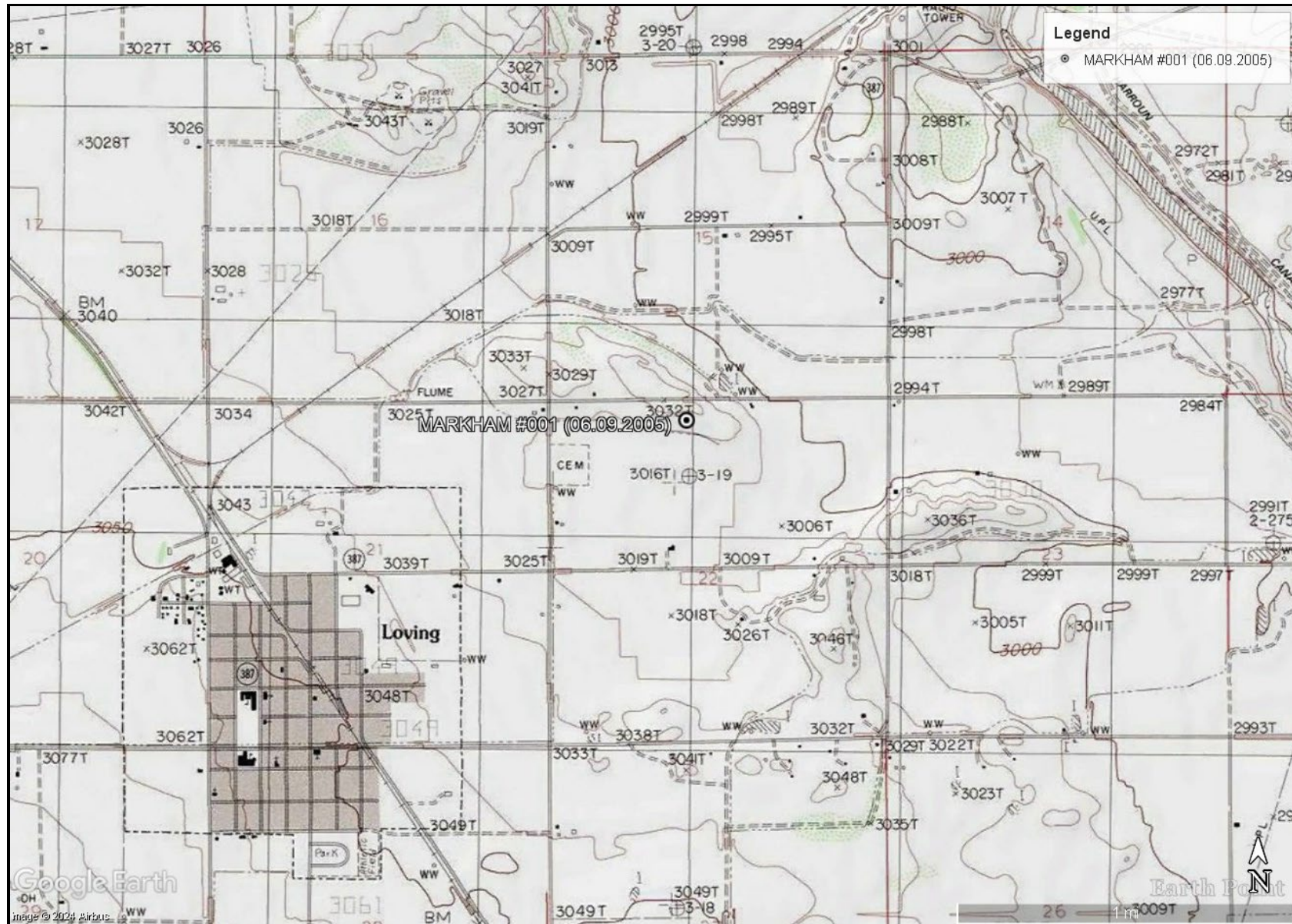




OVERVIEW MAP
 CHEVRON U.S.A., INC.
 MARKHAM #001 (06.09.2005)
 EDDY COUNTY, NEW MEXICO
 32.2971802°, 104.0764694°



FIGURE 1



TOPOGRAPHIC MAP
 CHEVRON U.S.A., INC.
 MARKHAM #001 (06.09.2005)
 EDDY COUNTY, NEW MEXICO
 32.2971802°, 104.0764694°

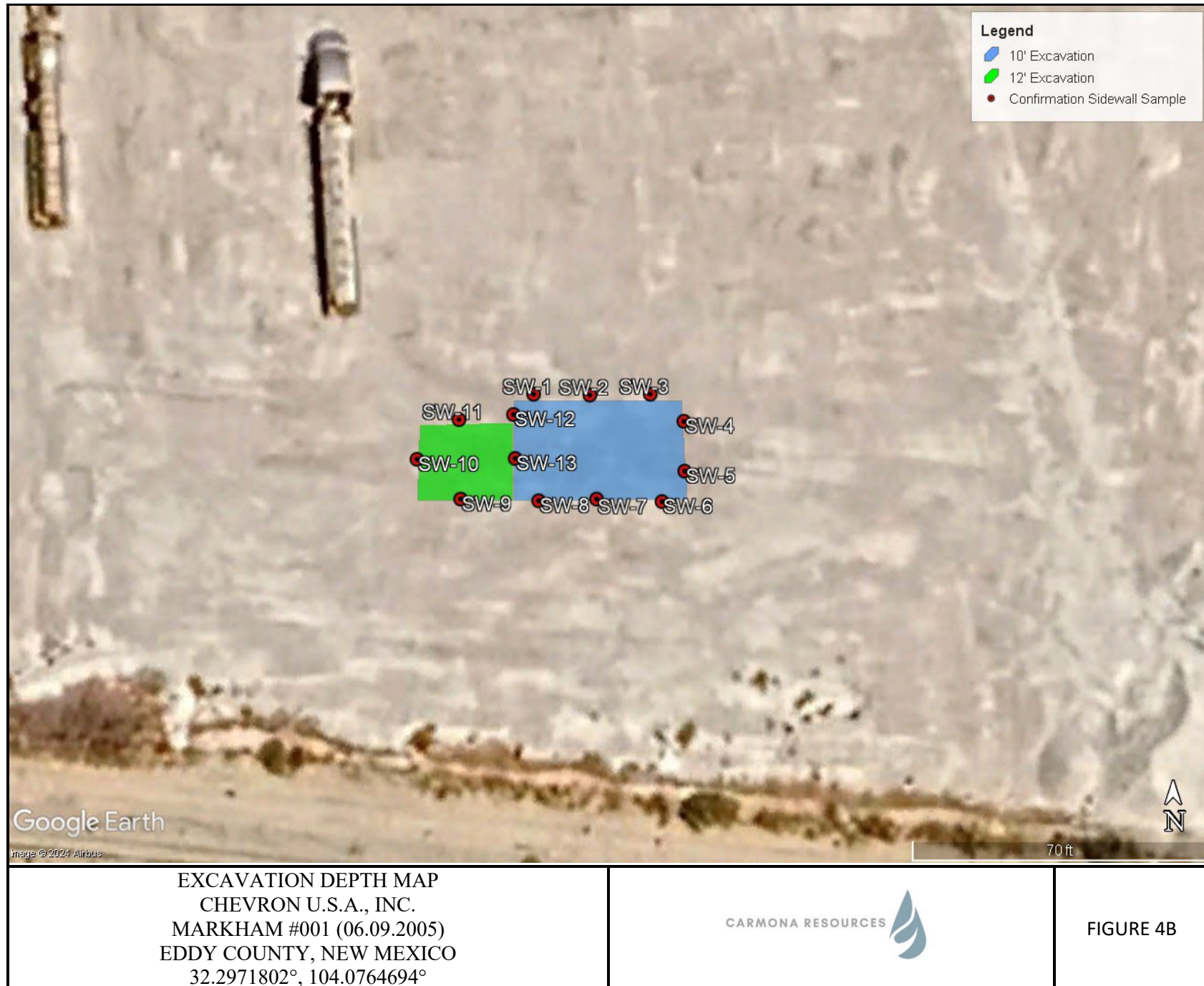


FIGURE 2









APPENDIX A

CARMONA RESOURCES



Table 1
Chevron
MARKHAM #001 (06.09.2005)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
AH-1	5/2/2022	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	16.9
	"	3.5-4'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	32.3
BH-1	7/29/2024	0-1'	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,030
	"	2'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	941
	"	3'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,440
	"	4'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,750
	"	6'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,300
	"	8'	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,770
	"	10'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,030
AH-2	5/2/2022	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	20.5
	"	3.5-4'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,000
BH-2	7/29/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	905
	"	2'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	566
	"	3'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,010
	"	4'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,430
	"	6'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,340
	"	8'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,370
	"	10'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	202
BH-3	7/29/2024	0-1'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	153
	"	2'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	453
	"	3'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	741
	"	4'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,070
	"	6'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,020
	"	8'	<49.9	727	<49.9	727	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,130
	"	10'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	596
H-1	7/29/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	751
H-2	7/29/2024	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	480
H-3	7/29/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	17.4
H-4	7/29/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	406
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(AH) Auger Hole

(BH) Bore Hole

(H) Horizontal Sample

 Removed

Table 2
Chevron
MARKHAM #001 (06.09.2005)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-2	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-3	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-4	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-5	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-6	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-7	10/1/2024	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-8	10/1/2024	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-1	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-2	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-3	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-4	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-5	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-6	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-7	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-8	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-9	10/1/2024	10.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-10	10/1/2024	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-11	10/1/2024	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-12	10/1/2024	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-13	10/1/2024	10.0'-12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Lealand Backfill	10/9/2024	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	7.86
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES

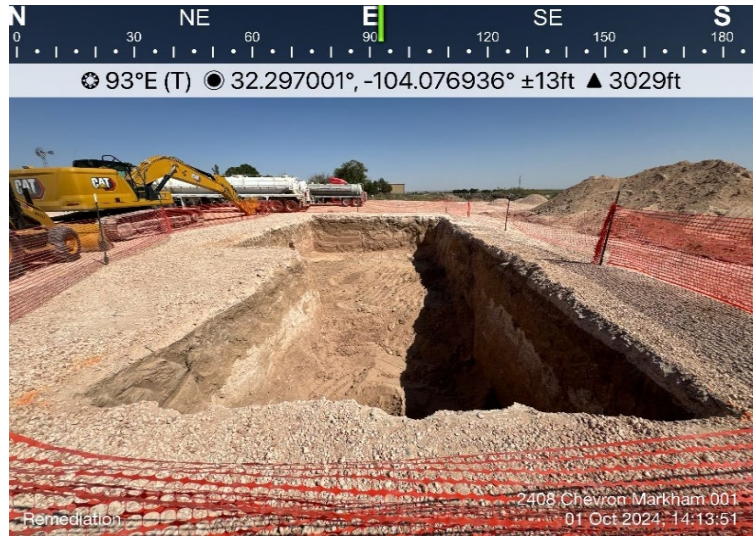


PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 1**Facility:** Markham #001**County:** Eddy County, New Mexico**Description:**

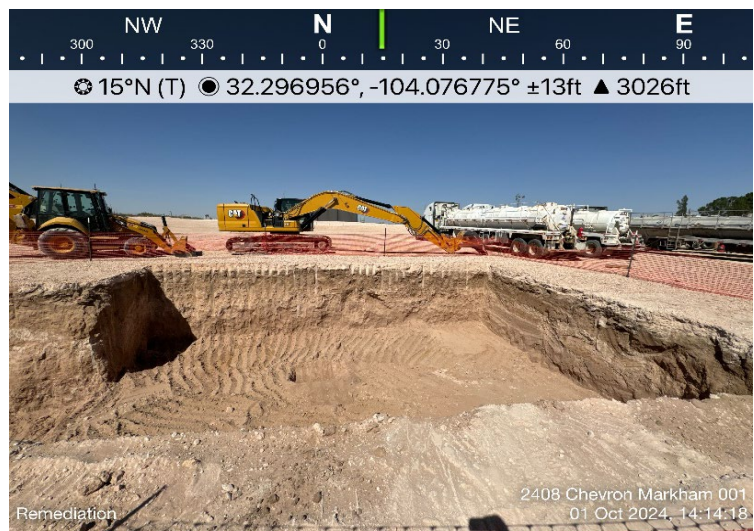
View East, Area of CS-8 through CS-1

**Photograph No. 2****Facility:** Markham #001**County:** Eddy County, New Mexico**Description:**

View West, area of CS-1 through CS-8

**Photograph No. 3****Facility:** Markham #001**County:** Eddy County, New Mexico**Description:**

View North, area of CS-1 through CS-8



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 4

Facility: Markham #001

County: Eddy County, New Mexico

Description:

View West, Area Backfilled to Landowner Specifications.



Photograph No. 5

Facility: Markham #001

County: Eddy County, New Mexico

Description:

View South, Area Backfilled to Landowner Specifications.



Photograph No. 6

Facility: Markham #001

County: Eddy County, New Mexico

Description:

View East, Area Backfilled to Landowner Specifications.



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 7

Facility: Markham #001

County: Eddy County, New Mexico

Description:

View West, Area Backfilled to surface..



Photograph No. 8

Facility: Markham #001

County: Eddy County, New Mexico

Description:

View South, Area Backfilled with additional gravel to Landowner Specifications.



Photograph No. 9

Facility: Markham #001

County: Eddy County, New Mexico

Description:

View South, Area Backfilled with additional gravel to Landowner Specifications.



PHOTOGRAPHIC LOG
Chevron U.S.A., Inc.

Photograph No. 10

Facility: Markham #001

County: Eddy County, New Mexico

Description:
View Southwest, Area Backfilled with additional gravel
to Landowner Specifications.



APPENDIX C

CARMONA RESOURCES



State of New Mexico
Energy Minerals and Natural Resources

District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

30-015-26544

Release Notification and Corrective Action

n CLB0523732298

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Chesapeake Energy	Contact: Bradley Blevins
Address: 5014 Carlsbad Highway	Telephone No.: (505) 391-1462 ext. 24
Facility Name: Markham #1	Facility Type: Tank Battery

Surface Owner: Portions of Unit Letter C of this section are owned by Floyd Markham, Peggy Doyle, John Armsburst, Roy and Janice Shugart and Samuel Burkham.	Mineral Owner: Fee	Lease No.:
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	22	23 S	28 E	300	North	2,250	West	Eddy

Latitude: N 32° 17' 48.737" Longitude: W 104° 04' 36.957"

NATURE OF RELEASE

Type of Release: Water (70 barrels) and Oil (3 barrels)	Volume of Release: 73 barrels	Volume Recovered: 70 barrels
Source of Release: Tank	Date and Hour of Occurrence: 09 June 2005 @ 0200 hours	Date and Hour of Discovery: 09 June 2005 @ 0200 hrs
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, NMOCD Artesia	RECEIVED JUN 27 2005 OCD-ARTESIA
By Whom? Bradley Blevins, Chesapeake Energy Corporation	Date and Hour: 09 June 2005 @ 1500 hrs	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.* Truck driver failed to notice the tank was spilling over during off-loading activities, resulting in the release of approximately 73 barrels of crude oil and water. A vacuum truck was retained immediately to recover the liquid, with 70 barrels being recovered.

Describe Area Affected and Cleanup Action Taken.* Approximately 2,300 square feet of surface area was impacted by the release, all of which was within the bermed area. All liquid was recovered utilizing a vacuum truck. Saturated soil was excavated and stockpiled on plastic on June 10, 2005. The soil remains stockpiled on site until a remediation plan is developed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <u>Bradley Blevins</u>		OIL CONSERVATION DIVISION	
		TIM GUM Approved by District Supervisor: <u>by Mike Bratcher</u>	
Printed Name: Bradley Blevins		Approval Date: <u>9/14/05</u>	Expiration Date: <u>N/A</u>
Title: Field Technician		Conditions of Approval:	
E-mail Address: bblevins@chkenegy.com			
Date: <u>06-23-05</u> Phone: (505) 391-1462 ext. 24		Attached <input checked="" type="checkbox"/>	

* Attach Additional Sheets If Necessary

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

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

QUESTIONS

Action 387639

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 387639
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nCLB0523732298
Incident Name	NCLB0523732298 MARKHAM #001 @ 30-015-26544
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-26544] MARKHAM #001

Location of Release Source	
Site Name	MARKHAM #001
Date Release Discovered	06/09/2005
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	12
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/28/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	(32.297180, -104.076469) Carmona Resources will be onsite from 09.28.2024 – 10.04.2024 to finish excavating and collect composite confirmation samples.

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

CONDITIONS

Action 387639

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 387639
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/26/2024

Ashton Thielke

From: brian pressnrg.net <brian@pressnrg.net>
Sent: Thursday, October 31, 2024 4:06 PM
To: Ashton Thielke
Cc: Barnhill, Amy
Subject: Re: Chevron - NCLB0523732298 - Markham #001 - Closure Report

Good afternoon, Ashton

Everything looks good to me.

The affected area has been remediated, excavated, and backfilled to my satisfaction.

I DO NOT want the top layer to contain the same background thickness of topsoil and/or one foot of suitable material to establish vegetation, since the entire property is used as an industrial business.

I DO NOT want the area reseeded, since the entire property is used as an industrial business.

Thank you,
Brian Ralston
Operations Manager



Cell: (479)462-9144
Email: brian@pressnrg.net
Website: www.pressnrg.net

From: Ashton Thielke <ThielkeA@carmonaresources.com>
Sent: Thursday, October 31, 2024 10:40 AM
To: brian pressnrg.net <brian@pressnrg.net>
Cc: Barnhill, Amy <ABarnhill@chevron.com>
Subject: FW: Chevron - NCLB0523732298 - Markham #001 - Closure Report

Good morning Brian,

Just wanted to see if you had a chance to review this report and updated photos in the report.

Thanks!

Ashton Thielke
Environmental Manager
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-8988 C: 281-753-5659

ThielkeA@carmonaresources.com

[Environmental Consulting Firm - Carmona Resources](#)

CARMONA RESOURCES



From: Ashton Thielke

Sent: Tuesday, October 29, 2024 8:20 AM

To: brian pressnrg.net <brian@pressnrg.net>

Cc: Barnhill, Amy <ABarnhill@chevron.com>

Subject: Chevron - NCLB0523732298 - Markham #001 - Closure Report

Good morning Mr. Brian Ralston,

Please see the attached closure report for the historical crude oil & produced water spill that occurred on your property.

Please let me know if you have any questions or comments in regard to our remediation and excavation of the above mentioned spill.

All contaminated material has been removed from your property (confirmed with composite confirmation floor and sidewall samples of the excavation, per NMAC 19.15.29.12), properly disposed of and backfilled to your specifications with the same ¾" crushed stone located on your property.

Since our last conversation, We have covered the previous remediation area with gravel per your specifications for your business. Updated photos can be found on pages 19 & 20.

To gain full closure of this site from the NMOCD, I will need a response with your email signature and/or company letterhead that relates to the property that this remediation took place and that you agree with the following exceptions to the NMAC 19.15.29.13 (Restoration, Reclamation and Re-Vegetation), primarily due to your property being used as a business and currently has a shop and ¾" crushed stone covering the entire property as a cover for a parking lot for company vehicles:

- The affected area has been remediated, excavated, and backfilled to your satisfaction.
- That you **DO NOT** want the top layer to contain the same background thickness of topsoil and/or one foot of suitable material to establish vegetation, since the entire property is used as an industrial business.
- That you **DO NOT** want the area reseeded, since the entire property is used as an industrial business.

Again, please do not hesitate to give me a call if you have any questions or concerns and I will be happy to answer them as soon as possible.

Thanks!

Ashton Thielke

Environmental Manager

310 West Wall Street, Suite 500

Midland TX, 79701

M: 432-813-8988 C: 281-753-5659

ThielkeA@carmonaresources.com

[Environmental Consulting Firm - Carmona Resources](#)

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX D

CARMONA RESOURCES

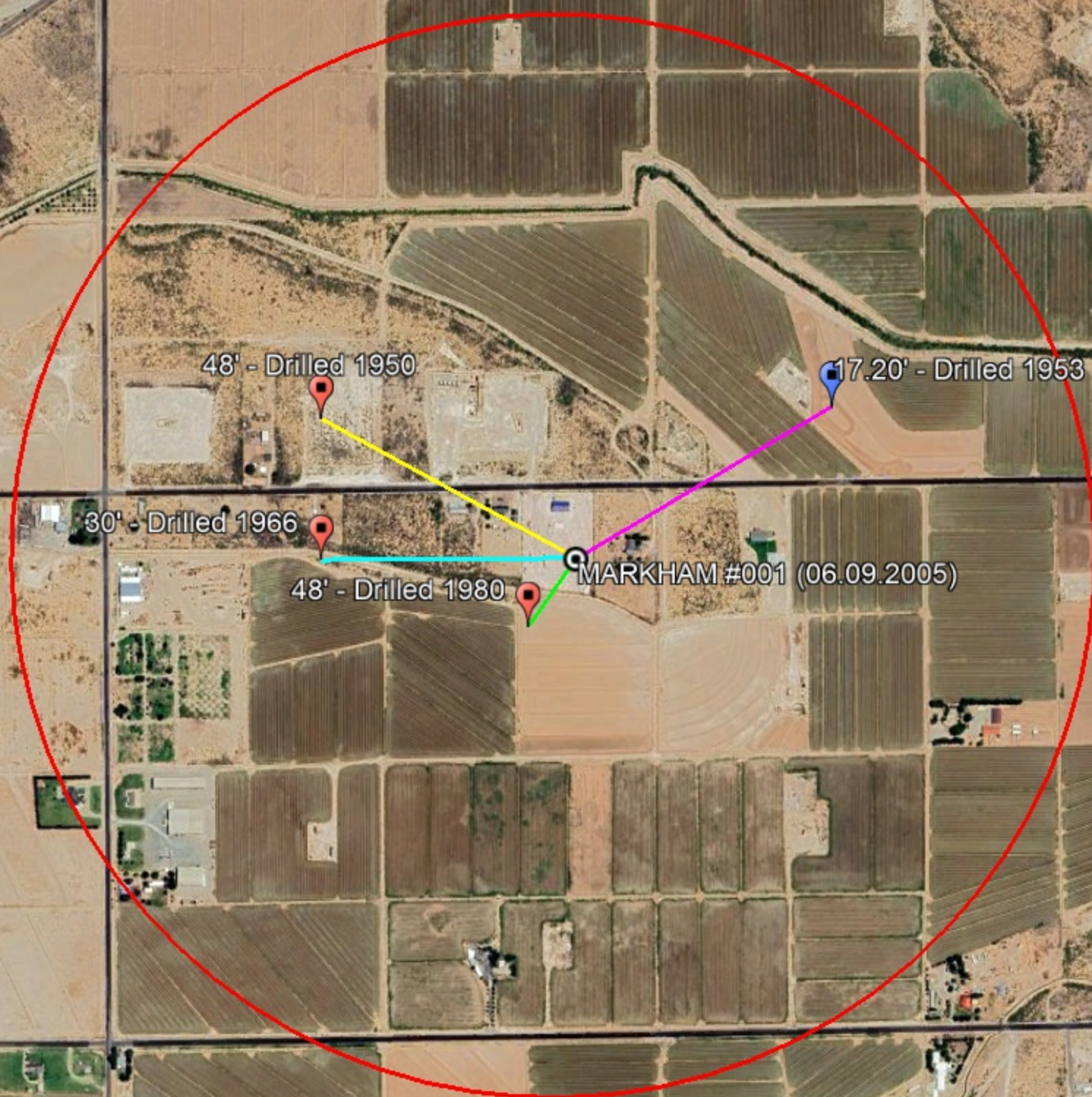


Nearest water well

Chevron USA

Legend

- 0.08 Miles
- 0.24 Miles
- 0.27 Miles
- 0.27 Miles
- 0.50 Mile Radius
- MARKHAM #001 (06.09.2005)
- NMSEO Water Well
- USGS Water Well



Medium Karst

Chevron USA

Legend

- MARKHAM #001 (06.09.2005)
- Medium

MARKHAM #001 (06.09.2005)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)				(R=POD has been replaced, O=orphaned, C=the file is closed)				(quarters are smallest to largest)				(meters)		(In feet)		
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 01872		C	ED		NE	NW	22	23S	28E	586878.0	3573649.0 *		123	68	48	20
C 01336		C	ED	NE	NW	NW	22	23S	28E	586572.0	3573744.0 *		378	190	30	160
C 00211		C	ED	SE	SW	SW	15	23S	28E	586570.0	3573949.0 *		429	89	48	41
C 00094 AS	C	CUB	ED	NW	SW	NE	22	23S	28E	587183.0	3573346.0 *		465	165	40	125
C 01487 CLW201796	O	CUB	ED		SW	NE	22	23S	28E	587284.0	3573247.0 *		602	90	30	60
C 01487		CUB	ED	SW	SE	NW	22	23S	28E	586779.0	3573142.0 *		631	150	38	112
C 01253		CUB	ED	NW	SW	NW	22	23S	28E	586375.0	3573338.0 *		707	179	50	129
C 00094		CUB	ED	SW	SE	NE	22	23S	28E	587588.0	3573151.0 *		874	100	60	40
C 00094	C	CUB	ED	SW	SE	NE	22	23S	28E	587588.0	3573151.0 *		874	100	60	40
C 00094 A	C	CUB	ED	SW	SE	NE	22	23S	28E	587588.0	3573151.0 *		874	166	40	126
C 01885		C	ED		NE	NE	21	23S	28E	586070.0	3573640.0 *		887	104	35	69
C 02796		CUB	ED		NE	SW	22	23S	28E	586882.0	3572838.0 *		913	200		
C 02847		CUB	ED	NE	NW	SE	22	23S	28E	587386.0	3572941.0 *		918	80		
C 02849		CUB	ED	NE	NW	SE	22	23S	28E	587386.0	3572941.0 *		918	60		
C 00128		C	ED	NE	SE	SE	15	23S	28E	587783.0	3574162.0 *		929	149		
C 01816		C	ED	NW	SW	NW	23	23S	28E	587992.0	3573355.0 *		1113	200	40	160
C 00024	O	CUB	ED			SW	22	23S	28E	586682.0	3572629.0 *		1152	242	48	194
C 00453		C	ED	NE	NE	SE	22	23S	28E	587790.0	3572945.0 *		1162	65		
C 03762 POD3		CUB	ED	SE	NE	NE	16	23S	28E	586203.4	3574642.4		1164	40	30	10
C 00072		CUB	ED	SW	SW	NW	15	23S	28E	586364.0	3574760.0 *		1168	120	54	66
C 00048		CUB	ED	SW	SW	NW	23	23S	28E	587997.2	3573160.4		1200	182	75	107
C 00048	C	CUB	ED	SW	SW	NW	23	23S	28E	587997.2	3573160.4		1200	182	75	107
C 00443		C	ED	SE	NE	SE	22	23S	28E	587790.0	3572745.0 *		1308	171	160	11
C 00269		C	ED	SE	SE	NE	15	23S	28E	587778.0	3574773.0 *		1316	240	35	205
C 00269 CLW199753	O	C	ED	SE	SE	NE	15	23S	28E	587778.0	3574773.0 *		1316	240	35	205
C 01870		C	ED		SE	SW	22	23S	28E	586885.0	3572432.0 *		1318	105	48	57






















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

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

(quarters are
smallest to
largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 02189		C	ED	NW	NW	SW	14	23S	28E	587985.0	3574572.0	* 	1321	48	29	19
C 00321		C	ED		SE	NE	15	23S	28E	587679.0	3574874.0	* 	1339	120		
C 02503		C	ED		SE	NE	15	23S	28E	587679.0	3574874.0	* 	1339	70	12	58
C 00327		CUB	ED	SW	NE	SE	21	23S	28E	585974.0	3572728.0	* 	1413	212		
C 00869		CUB	ED	SW	SW	SE	22	23S	28E	587188.0	3572335.0	* 	1434	360		
C 00154 CLW194067	O	CUB	ED	SW	NE	NW	23	23S	28E	588395.0	3573566.0	* 	1455	150	65	85
C 01108		C	ED	SW	NE	NW	23	23S	28E	588395.0	3573566.0	* 	1455	60	35	25
C 03974 POD1		C	ED	NE	NE	NW	27	23S	28E	587087.1	3572220.9		1534	75	43	32
C 00616		CUB	ED	NW	SW	NW	14	23S	28E	587982.0	3574978.0	* 	1604	120	30	90
C 00641		C	ED	NE	NE	NW	27	23S	28E	586986.0	3572126.0	* 	1623	115	40	75
C 00716		C	ED				21	23S	28E	585471.0	3573012.0	* 	1653	140	69	71
C 00154		CUB	ED	SE	NE	NW	23	23S	28E	588595.0	3573566.0	* 	1654	196	38	158
C 03762 POD1		CUB	ED	SE	SE	NE	17	23S	28E	585313.8	3574066.1		1667	40	31	9
C 03432 POD1		C	ED	NW	NE	NE	27	23S	28E	587527.4	3572162.5		1688	115	75	40
C 00235		C	ED		NE	NE	15	23S	28E	587676.0	3575280.0	* 	1693	160		
C 00869 S-2	O	CUB	ED		SW	SW	23	23S	28E	588097.0	3572444.0	* 	1737	150	58	92
C 00340		C	ED		NW	NW	27	23S	28E	586483.0	3572022.0	* 	1789	117	18	99
C 00326		CUB	ED	SW	SW	SW	10	23S	28E	586358.0	3575572.0	* 	1916	130	19	111
C 00326 CLW196238	O	CUB	ED	SW	SW	SW	10	23S	28E	586358.0	3575572.0	* 	1916	196	25	171
C 01122		CUB	ED	NW	NW	NW	26	23S	28E	587999.0	3572138.0	* 	1922	175	30	145
C 01102		C	ED		NW	NE	23	23S	28E	588901.0	3573672.0	* 	1951	100	12	88
C 04451 POD1		C	ED	SE	SE	SE	10	23S	28E	587833.0	3575521.8		1979	120	57	63

Average Depth to Water: 45 feet

Minimum Depth: 12 feet

Maximum Depth: 160 feet

Record Count: 48

UTM Filters (in meters):
Easting: 586950.63

Northing: 3573749.35

Radius: 2000

* 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.

193951

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

404725 SANTA FE

Section 1. GENERAL INFORMATION

(A) Owner of well Peggy June, Doyle Owner's Well No. 23-28-22-12212
Street or Post Office Address RT 1, Box 191
City and State Loving, New Mexico 88256

Well was drilled under Permit No. C-1872 and is located in the:
a. 1/4 NE 1/4 NW 1/4 of Section 22 Township 23S Range 28E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor A.H. Moreland License No. WD-II3
Address 728 Standpipe Road Carlsbad, New Mexico 88220
Drilling Began April 7 1980 Completed June 12 1980 Type tools Cable Size of hole 9 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 68 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 48 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
52	68	16	Conglomerate Rock	200-300

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7 0.D	23	10			53	None		

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	52	9			
52	68	6 1/2			

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received July 2, 1980
Quad _____ FWL _____ FSL _____
Dom. & Stock _____
Use _____ Location No. 23.28.22.12212

WELL RECORD

463041

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(Plat of 640 acres)

(A) Owner of well James Nymeyer
Street and Number RFD
City Loving State N.M.
Well was drilled under Permit No. C1336 and is located in the
N.E. 1/4 N.W. 1/4 N.W. 1/4 of Section 22 Twp. 23 S. Rge. 29 E.
(B) Drilling Contractor Howard Hemler License No. N.D. 24
Street and Number Frijola Route
City Carlsbad State N.M.
Drilling was commenced 9/3 19 66
Drilling was completed 9/20 19 66

Elevation at top of casing in feet above sea level _____ Total depth of well 190
State whether well is shallow or artesian shallow Depth to water upon completion 30

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	38	42	4	gravel
2	66	75	9	cong
3	155	160		cong
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7 8" I.D.	32	weld			52		38	

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____ Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received 1967 JAN 26 AM 11:13

File No. C-1336 Use Norm Location No. 29, 29, 22, 112

LOG OF WELL

[illegible]

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Howard Smith
Well Driller



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- How are we doing? We want to hear from you. Take our quick [survey](#) to tell us what you think.

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 =

- 321757104042101

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321757104042101 23S.28E.15.433131

Eddy County, New Mexico
Latitude 32°17'57", Longitude 104°04'21" NAD27
Land-surface elevation 3,000 feet above NAVD88
The depth of the well is 149 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1953-02-05			D	62610	2981.23	NGVD29	1	Z			A
1953-02-05			D	62611	2982.80	NAVD88	1	Z			A
1953-02-05			D	72019	17.20		1	Z			A

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

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)


Page Last Modified: 2024-10-07 16:45:09 EDT

0.37 0.24 nadww02

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 Nbr	Q64	Q16	Q4	Sec	TwS	Rng	X	Y	Map
	C 00211	SE	SW	SW	15	23S	28E	586570.0	3573949.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	592	Driller Company:	TOMBLIN DRILLING
------------------	-----	------------------	------------------

Driller Name:	J. W. TOMBLIN
---------------	---------------

Drill Start Date:	1979-06-19	Drill Finish Date:	1979-06-20	Plug Date:	
-------------------	------------	--------------------	------------	------------	--

Log File Date:	1979-09-26	PCW Rcv Date:	1950-12-08	Source:	Shallow
----------------	------------	---------------	------------	---------	---------

Pump Type:		Pipe Discharge Size:		Estimated Yield:	18
------------	--	----------------------	--	------------------	----

Casing Size:	7.00	Depth Well:	89	Depth Water:	48
--------------	------	-------------	----	--------------	----

Water Bearing Stratifications:

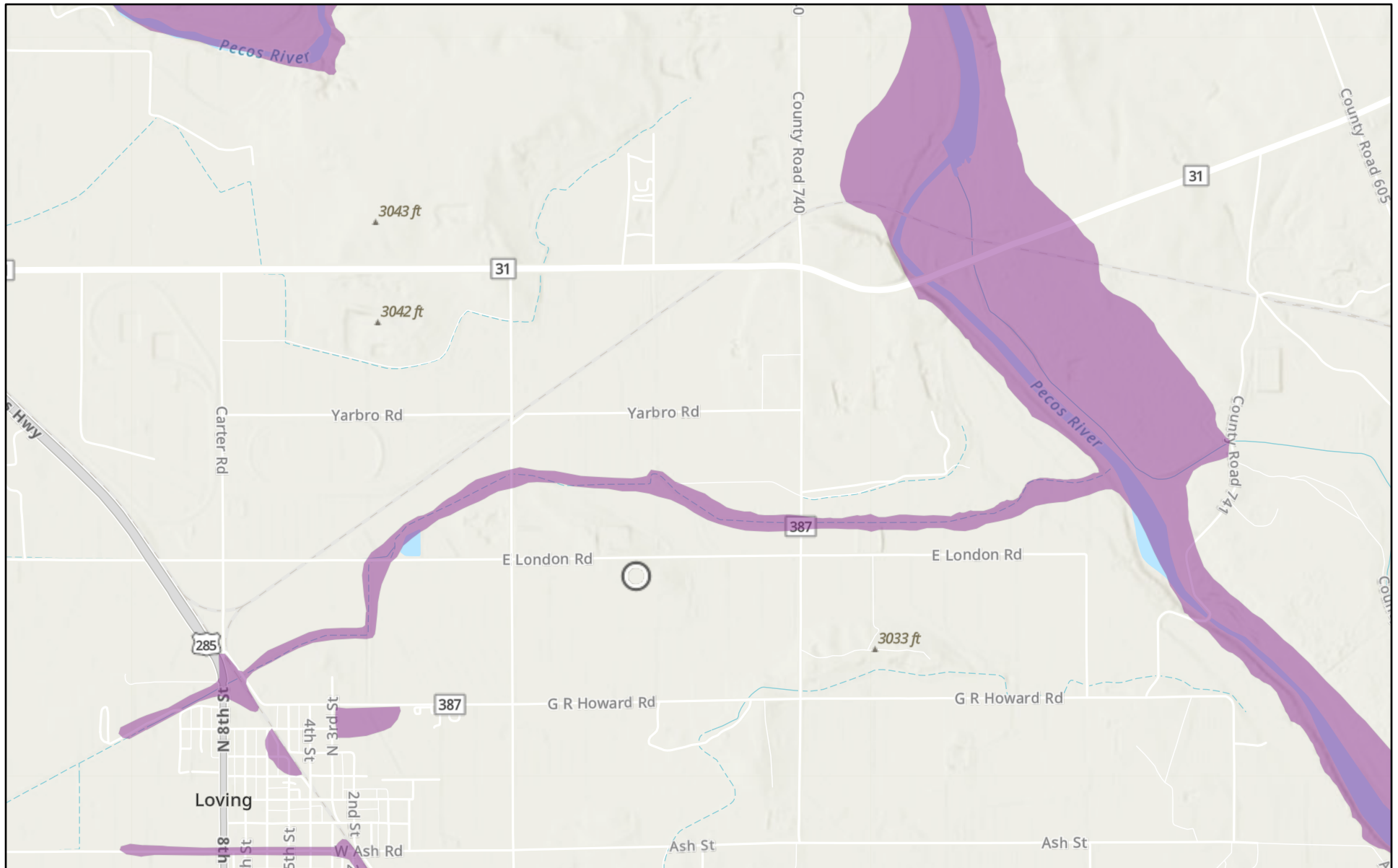
Top	Bottom	Description
75	88	Sandstone/Gravel/Conglomerate

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.

10/7/24 2:43 PM MST

Point of Diversion Summary

MARKHAM #001 (06.09.2005)



10/7/2024

USA Flood Hazard Areas

 1% Annual Chance Flood Hazard

World Hillshade



1:36,112

0 0.25 0.5 1 mi




0 0.4 0.8 1.6 km

Esri, NASA, NGA, USGS, FEMA, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS,

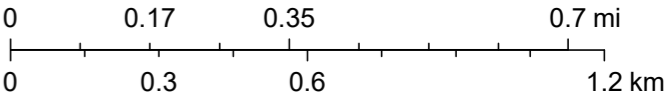
MARKHAM #001 (06.09.2005)



10/7/2024, 3:36:18 PM

-  OSW Water Bodies
-  OSE Streams
-  NMED Drinking Water Systems

1:18,056



Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, NM OSE

APPENDIX E

CARMONA RESOURCES





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-14332-1
Laboratory Sample Delivery Group: 15315
Client Project/Site: Markham #001

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: Brandon Wilson

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
5/11/2022 3:27:58 PM

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

LINKS

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results through
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Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Laboratory Job ID: 880-14332-1
SDG: 15315

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Job ID: 880-14332-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-14332-1

Receipt

The samples were received on 5/3/2022 11:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

GC VOA

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

GC Semi VOA

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 / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24814 and analytical batch 880-24887 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-14332-1

Date Collected: 05/02/22 13:00

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 0 - 6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 05:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/10/22 10:52	05/11/22 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/10/22 10:52	05/11/22 05:36	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/10/22 10:52	05/11/22 05:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/11/22 08:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/06/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 16:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 16:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	05/04/22 14:31	05/05/22 16:06	1
o-Terphenyl	91		70 - 130	05/04/22 14:31	05/05/22 16:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.9		5.04		mg/Kg			05/06/22 07:34	1

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-14332-2

Date Collected: 05/02/22 13:05

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 42 - 48"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 08:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 10:52	05/11/22 08:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/10/22 10:52	05/11/22 08:39	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-14332-2

Date Collected: 05/02/22 13:05

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 42 - 48"

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	05/10/22 10:52	05/11/22 08:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/11/22 08:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/06/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 16:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 16:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/04/22 14:31	05/05/22 16:27	1
o-Terphenyl	103		70 - 130				05/04/22 14:31	05/05/22 16:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.3		4.99		mg/Kg			05/06/22 07:53	1

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-14332-3

Date Collected: 05/02/22 13:10

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 0 - 6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 08:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 08:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 08:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/10/22 10:52	05/11/22 08:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 08:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/10/22 10:52	05/11/22 08:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/10/22 10:52	05/11/22 08:59	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/10/22 10:52	05/11/22 08:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/11/22 08:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/06/22 10:31	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-14332-3

Date Collected: 05/02/22 13:10

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 0 - 6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 17:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 17:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				05/04/22 14:31	05/05/22 17:10	1
o-Terphenyl	115		70 - 130				05/04/22 14:31	05/05/22 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		5.05		mg/Kg			05/06/22 07:59	1

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-14332-4

Date Collected: 05/02/22 13:15

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 42 - 48"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 10:52	05/11/22 09:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				05/10/22 10:52	05/11/22 09:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/10/22 10:52	05/11/22 09:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/11/22 08:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 17:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				05/04/22 14:31	05/05/22 17:31	1
o-Terphenyl	100		70 - 130				05/04/22 14:31	05/05/22 17:31	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Client Sample ID: Auger Hole 2
Date Collected: 05/02/22 13:15
Date Received: 05/03/22 11:39
Sample Depth: 42 - 48"

Lab Sample ID: 880-14332-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		25.0		mg/Kg			05/06/22 08:06	5

- 1
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Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1					
		(70-130)	(70-130)					
880-14332-1	Auger Hole 1	108	99					
880-14332-2	Auger Hole 1	107	98					
880-14332-3	Auger Hole 2	109	100					
880-14332-4	Auger Hole 2	110	100					
880-14580-A-4-B MS	Matrix Spike	104	98					
880-14580-A-4-C MSD	Matrix Spike Duplicate	106	101					
LCS 880-25266/1-A	Lab Control Sample	99	99					
LCSD 880-25266/2-A	Lab Control Sample Dup	100	97					
MB 880-25110/5-A	Method Blank	101	95					
MB 880-25266/5-A	Method Blank	98	95					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1					
		(70-130)	(70-130)					
880-14332-1	Auger Hole 1	90	91					
880-14332-2	Auger Hole 1	102	103					
880-14332-3	Auger Hole 2	114	115					
880-14332-4	Auger Hole 2	96	100					

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25110/5-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 13:08	05/10/22 12:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/09/22 13:08	05/10/22 12:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/09/22 13:08	05/10/22 12:02	1

Lab Sample ID: MB 880-25266/5-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/10/22 10:52	05/11/22 03:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/10/22 10:52	05/11/22 03:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/10/22 10:52	05/11/22 03:04	1

Lab Sample ID: LCS 880-25266/1-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08603		mg/Kg		86	70 - 130
Toluene	0.100	0.08465		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08620		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1796		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09780		mg/Kg		98	70 - 130

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

Lab Sample ID: LCSD 880-25266/2-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.07230		mg/Kg		72	70 - 130	17	35

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

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

Lab Sample ID: LCSD 880-25266/2-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.07434		mg/Kg		74	70 - 130	13		35
Ethylbenzene	0.100	0.07575		mg/Kg		76	70 - 130	13		35
m-Xylene & p-Xylene	0.200	0.1592		mg/Kg		80	70 - 130	12		35
o-Xylene	0.100	0.08755		mg/Kg		88	70 - 130	11		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-14580-A-4-B MS

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00201	U	0.0998	0.07959		mg/Kg		80	70 - 130	
Toluene	<0.00201	U	0.0998	0.07831		mg/Kg		78	70 - 130	
Ethylbenzene	<0.00201	U	0.0998	0.08032		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1674		mg/Kg		84	70 - 130	
o-Xylene	<0.00201	U	0.0998	0.09136		mg/Kg		92	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-14580-A-4-C MSD

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.00201	U	0.100	0.08680		mg/Kg		87	70 - 130	9		35
Toluene	<0.00201	U	0.100	0.08529		mg/Kg		85	70 - 130	9		35
Ethylbenzene	<0.00201	U	0.100	0.08679		mg/Kg		87	70 - 130	8		35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1811		mg/Kg		90	70 - 130	8		35
o-Xylene	<0.00201	U	0.100	0.09802		mg/Kg		98	70 - 130	7		35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24814/1-A

Matrix: Solid

Analysis Batch: 24887

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			05/06/22 06:37	1

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-24814/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 24887										
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride			250	266.7		mg/Kg		107	90 - 110	

Lab Sample ID: LCSD 880-24814/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 24887										
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride			250	273.0		mg/Kg		109	90 - 110	2 20

Lab Sample ID: 880-14331-A-1-C MS				Client Sample ID: Matrix Spike						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 24887										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	11.1	F1	250	305.4	F1	mg/Kg		118	90 - 110	

Lab Sample ID: 880-14331-A-1-D MSD				Client Sample ID: Matrix Spike Duplicate						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 24887										
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride	11.1	F1	250	281.0		mg/Kg		108	90 - 110	8 20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

GC VOA

Prep Batch: 25110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25110/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 25224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	8021B	25266
880-14332-2	Auger Hole 1	Total/NA	Solid	8021B	25266
880-14332-3	Auger Hole 2	Total/NA	Solid	8021B	25266
880-14332-4	Auger Hole 2	Total/NA	Solid	8021B	25266
MB 880-25110/5-A	Method Blank	Total/NA	Solid	8021B	25110
MB 880-25266/5-A	Method Blank	Total/NA	Solid	8021B	25266
LCS 880-25266/1-A	Lab Control Sample	Total/NA	Solid	8021B	25266
LCSD 880-25266/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25266
880-14580-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	25266
880-14580-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25266

Prep Batch: 25266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	5035	
880-14332-2	Auger Hole 1	Total/NA	Solid	5035	
880-14332-3	Auger Hole 2	Total/NA	Solid	5035	
880-14332-4	Auger Hole 2	Total/NA	Solid	5035	
MB 880-25266/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25266/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25266/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14580-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-14580-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-14332-2	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-14332-3	Auger Hole 2	Total/NA	Solid	Total BTEX	
880-14332-4	Auger Hole 2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-14332-2	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-14332-3	Auger Hole 2	Total/NA	Solid	8015NM Prep	
880-14332-4	Auger Hole 2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	8015B NM	24832
880-14332-2	Auger Hole 1	Total/NA	Solid	8015B NM	24832
880-14332-3	Auger Hole 2	Total/NA	Solid	8015B NM	24832
880-14332-4	Auger Hole 2	Total/NA	Solid	8015B NM	24832

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

GC Semi VOA

Analysis Batch: 24956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Total/NA	Solid	8015 NM	
880-14332-2	Auger Hole 1	Total/NA	Solid	8015 NM	
880-14332-3	Auger Hole 2	Total/NA	Solid	8015 NM	
880-14332-4	Auger Hole 2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Soluble	Solid	DI Leach	
880-14332-2	Auger Hole 1	Soluble	Solid	DI Leach	
880-14332-3	Auger Hole 2	Soluble	Solid	DI Leach	
880-14332-4	Auger Hole 2	Soluble	Solid	DI Leach	
MB 880-24814/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24814/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24814/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14331-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14331-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 24887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14332-1	Auger Hole 1	Soluble	Solid	300.0	24814
880-14332-2	Auger Hole 1	Soluble	Solid	300.0	24814
880-14332-3	Auger Hole 2	Soluble	Solid	300.0	24814
880-14332-4	Auger Hole 2	Soluble	Solid	300.0	24814
MB 880-24814/1-A	Method Blank	Soluble	Solid	300.0	24814
LCS 880-24814/2-A	Lab Control Sample	Soluble	Solid	300.0	24814
LCSD 880-24814/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24814
880-14331-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	24814
880-14331-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24814

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Client Sample ID: Auger Hole 1
Date Collected: 05/02/22 13:00
Date Received: 05/03/22 11:39

Lab Sample ID: 880-14332-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 05:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25301	05/11/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24956	05/06/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24832	05/04/22 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 16:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		1			24887	05/06/22 07:34	CH	XEN MID

Client Sample ID: Auger Hole 1
Date Collected: 05/02/22 13:05
Date Received: 05/03/22 11:39

Lab Sample ID: 880-14332-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 08:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25301	05/11/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24956	05/06/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24832	05/04/22 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 16:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		1			24887	05/06/22 07:53	CH	XEN MID

Client Sample ID: Auger Hole 2
Date Collected: 05/02/22 13:10
Date Received: 05/03/22 11:39

Lab Sample ID: 880-14332-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 08:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25301	05/11/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24956	05/06/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24832	05/04/22 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		1			24887	05/06/22 07:59	CH	XEN MID

Client Sample ID: Auger Hole 2
Date Collected: 05/02/22 13:15
Date Received: 05/03/22 11:39

Lab Sample ID: 880-14332-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 09:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25301	05/11/22 08:13	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Client Sample ID: Auger Hole 2
Date Collected: 05/02/22 13:15
Date Received: 05/03/22 11:39

Lab Sample ID: 880-14332-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24956	05/06/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24832	05/04/22 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 17:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		5			24887	05/06/22 08:06	CH	XEN MID

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

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

Protocol References:

- ASTM = ASTM International
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Markham #001

Job ID: 880-14332-1
SDG: 15315

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14332-1	Auger Hole 1	Solid	05/02/22 13:00	05/03/22 11:39	0 - 6"
880-14332-2	Auger Hole 1	Solid	05/02/22 13:05	05/03/22 11:39	42 - 48"
880-14332-3	Auger Hole 2	Solid	05/02/22 13:10	05/03/22 11:39	0 - 6"
880-14332-4	Auger Hole 2	Solid	05/02/22 13:15	05/03/22 11:39	42 - 48"

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



Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334

Midland TX (432-704-5440) EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296

Hobbs NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa, FL (813-620-2000)

Work Order No: 14332

www.xenco.com Page _____ of _____

Project Manager:	Brandon Wilson	Bill to (if different)	
Company Name	Etech Environmental	Company Name	
Address:	13000 WCR 100	Address:	
City, State ZIP:	Odessa TX 79765	City, State ZIP:	
Phone:	432-563-2200	Email:	brandon@etechenv.com

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

Project Name:		Turn Around		ANALYSIS REQUEST												Work Order Notes			
Project Number:		Routine <input type="checkbox"/>																	
P O. Number:		Rush																	
Sampler's Name:		Due Date																	
SAMPLE RECEIPT		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														
Temperature (°C)		5.9/5.7		Thermometer ID															
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor:															
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Total Containers:															
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A																	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth													Sample Comments	
Auger Hole 1		S	5-3-22	13:00	0-6"														
Auger Hole 1		S	{	13:05	42-48"														
Auger Hole 2		S		13:10	0-6"														
Auger Hole 2		S		13:15	42-48"														



860-14332 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 Hg

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5/3/22	2		
3		11:39	4		
5			6		

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-14332-1

SDG Number: 15315

Login Number: 14332

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/2/2024 11:08:53 AM

JOB DESCRIPTION

Markham #001
Eddy Co, NM

JOB NUMBER

880-46629-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
8/2/2024 11:08:53 AM

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

Client: Carmona Resources
Project/Site: Markham #001

Laboratory Job ID: 880-46629-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Markham #001

Job ID: 880-46629-1

Job ID: 880-46629-1

Eurofins Midland

Job Narrative
880-46629-1

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

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

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

Receipt

The samples were received on 7/30/2024 8:30 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 1.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5) (880-46629-1), H-2 (0-0.5) (880-46629-2), H-3 (0-0.5) (880-46629-3) and H-4 (0-0.5) (880-46629-4).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-87036 and analytical batch 880-86998 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-87107 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-87107/20).

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

Diesel Range Organics

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87050 and analytical batch 880-87112 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.

The associated samples are: H-1 (0-0.5) (880-46629-1), H-2 (0-0.5) (880-46629-2), H-3 (0-0.5) (880-46629-3), H-4 (0-0.5) (880-46629-4), (880-46628-A-61-A), (880-46628-A-61-B MS) and (880-46628-A-61-C MSD).

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-46629-1

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 14:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 15:49	07/31/24 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	07/30/24 15:49	07/31/24 14:14	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/30/24 15:49	07/31/24 14:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/31/24 14:14	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			07/30/24 22:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 22:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 22:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	07/30/24 10:46	07/30/24 22:38	1
o-Terphenyl	86		70 - 130	07/30/24 10:46	07/30/24 22:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	751		5.02		mg/Kg			08/01/24 16:28	1

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

Lab Sample ID: 880-46629-2

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 14:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 15:49	07/31/24 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/30/24 15:49	07/31/24 14:35	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/30/24 15:49	07/31/24 14:35	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-46629-2

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/31/24 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/24 22:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/30/24 22:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/30/24 22:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/30/24 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				07/30/24 10:46	07/30/24 22:53	1
o-Terphenyl	85		70 - 130				07/30/24 10:46	07/30/24 22:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480		4.97		mg/Kg			08/01/24 16:33	1

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

Lab Sample ID: 880-46629-3

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 17:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 17:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 17:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 15:49	07/31/24 17:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 17:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 15:49	07/31/24 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/30/24 15:49	07/31/24 17:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130				07/30/24 15:49	07/31/24 17:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/31/24 17:44	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			07/30/24 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 23:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 23:09	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-46629-3

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				07/30/24 10:46	07/30/24 23:09	1
o-Terphenyl	92		70 - 130				07/30/24 10:46	07/30/24 23:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.4		5.02		mg/Kg			08/01/24 16:38	1

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

Lab Sample ID: 880-46629-4

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 11:00	07/31/24 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				07/30/24 11:00	07/31/24 03:35	1
1,4-Difluorobenzene (Surr)	75		70 - 130				07/30/24 11:00	07/31/24 03:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/31/24 03:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/24 23:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 23:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 23:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				07/30/24 10:46	07/30/24 23:24	1
o-Terphenyl	90		70 - 130				07/30/24 10:46	07/30/24 23:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		4.98		mg/Kg			08/01/24 16:43	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-46629-1	H-1 (0-0.5)	105	91				
880-46629-2	H-2 (0-0.5)	109	92				
880-46629-3	H-3 (0-0.5)	105	92				
880-46629-4	H-4 (0-0.5)	98	75				
880-46655-A-1-D MS	Matrix Spike	94	99				
880-46655-A-1-E MSD	Matrix Spike Duplicate	93	97				
890-6962-A-16-B MS	Matrix Spike	127	96				
890-6962-A-16-C MSD	Matrix Spike Duplicate	118	87				
LCS 880-87036/1-A	Lab Control Sample	119	100				
LCS 880-87082/1-A	Lab Control Sample	93	95				
LCSD 880-87036/2-A	Lab Control Sample Dup	124	97				
LCSD 880-87082/2-A	Lab Control Sample Dup	101	97				
MB 880-86932/5-A	Method Blank	92	88				
MB 880-87036/5-A	Method Blank	86	88				
MB 880-87082/5-A	Method Blank	100	82				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-46629-1	H-1 (0-0.5)	93	86				
880-46629-2	H-2 (0-0.5)	92	85				
880-46629-3	H-3 (0-0.5)	99	92				
880-46629-4	H-4 (0-0.5)	99	90				
890-6962-A-21-C MS	Matrix Spike	97	91				
890-6962-A-21-D MSD	Matrix Spike Duplicate	97	92				
LCS 880-87034/2-A	Lab Control Sample	89	83				
LCSD 880-87034/3-A	Lab Control Sample Dup	89	82				
MB 880-87034/1-A	Method Blank	79	78				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-86932/5-A

Matrix: Solid

Analysis Batch: 86998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 86932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/24 15:26	07/30/24 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/24 15:26	07/30/24 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/24 15:26	07/30/24 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/24 15:26	07/30/24 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/24 15:26	07/30/24 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/24 15:26	07/30/24 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/29/24 15:26	07/30/24 11:28	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/29/24 15:26	07/30/24 11:28	1

Lab Sample ID: MB 880-87036/5-A

Matrix: Solid

Analysis Batch: 86998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/30/24 22:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/30/24 22:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/30/24 22:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 11:00	07/30/24 22:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:00	07/30/24 22:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 11:00	07/30/24 22:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	07/30/24 11:00	07/30/24 22:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/30/24 11:00	07/30/24 22:42	1

Lab Sample ID: LCS 880-87036/1-A

Matrix: Solid

Analysis Batch: 86998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1010		mg/Kg		101	70 - 130
Toluene	0.100	0.1015		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1170		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2418		mg/Kg		121	70 - 130
o-Xylene	0.100	0.1190		mg/Kg		119	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-87036/2-A

Matrix: Solid

Analysis Batch: 86998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1019		mg/Kg		102	70 - 130	1	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-87036/2-A

Matrix: Solid

Analysis Batch: 86998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.1022		mg/Kg		102	70 - 130		1	35
Ethylbenzene	0.100	0.1227		mg/Kg		123	70 - 130		5	35
m-Xylene & p-Xylene	0.200	0.2508		mg/Kg		125	70 - 130		4	35
o-Xylene	0.100	0.1234		mg/Kg		123	70 - 130		4	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-6962-A-16-B MS

Matrix: Solid

Analysis Batch: 86998

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00202	U F1	0.100	0.08452		mg/Kg		85	70 - 130	
Toluene	<0.00202	U	0.100	0.08863		mg/Kg		89	70 - 130	
Ethylbenzene	<0.00202	U	0.100	0.1094		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2197		mg/Kg		110	70 - 130	
o-Xylene	<0.00202	U	0.100	0.1094		mg/Kg		109	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-6962-A-16-C MSD

Matrix: Solid

Analysis Batch: 86998

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00202	U F1	0.100	0.06674	F1	mg/Kg		67	70 - 130		24	35
Toluene	<0.00202	U	0.100	0.07608		mg/Kg		76	70 - 130		15	35
Ethylbenzene	<0.00202	U	0.100	0.09045		mg/Kg		90	70 - 130		19	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1775		mg/Kg		89	70 - 130		21	35
o-Xylene	<0.00202	U	0.100	0.08873		mg/Kg		89	70 - 130		21	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-87082/5-A

Matrix: Solid

Analysis Batch: 87107

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87082

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 15:49	07/31/24 11:50	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-87082/5-A
Matrix: Solid
Analysis Batch: 87107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 15:49	07/31/24 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/30/24 15:49	07/31/24 11:50	1
1,4-Difluorobenzene (Surr)	82		70 - 130	07/30/24 15:49	07/31/24 11:50	1

Lab Sample ID: LCS 880-87082/1-A
Matrix: Solid
Analysis Batch: 87107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1191		mg/Kg		119	70 - 130
Toluene	0.100	0.1057		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1087		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2181		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1102		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-87082/2-A
Matrix: Solid
Analysis Batch: 87107

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87082

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1213		mg/Kg		121	70 - 130	2	35
Toluene	0.100	0.1073		mg/Kg		107	70 - 130	2	35
Ethylbenzene	0.100	0.1100		mg/Kg		110	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2206		mg/Kg		110	70 - 130	1	35
o-Xylene	0.100	0.1114		mg/Kg		111	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-46655-A-1-D MS
Matrix: Solid
Analysis Batch: 87107

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 87082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.1238		mg/Kg		124	70 - 130
Toluene	<0.00202	U	0.100	0.1042		mg/Kg		104	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2044		mg/Kg		102	70 - 130
o-Xylene	<0.00202	U	0.100	0.1045		mg/Kg		105	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-46655-A-1-D MS
Matrix: Solid
Analysis Batch: 87107

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 87082

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-46655-A-1-E MSD
Matrix: Solid
Analysis Batch: 87107

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 87082

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.1138		mg/Kg		114	70 - 130	8	35
Toluene	<0.00202	U	0.100	0.09384		mg/Kg		94	70 - 130	11	35
Ethylbenzene	<0.00202	U	0.100	0.08629		mg/Kg		86	70 - 130	17	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1711		mg/Kg		86	70 - 130	18	35
o-Xylene	<0.00202	U	0.100	0.08967		mg/Kg		90	70 - 130	15	35
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-87034/1-A
Matrix: Solid
Analysis Batch: 87030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 20:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 20:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				07/30/24 10:46	07/30/24 20:16	1
o-Terphenyl	78		70 - 130				07/30/24 10:46	07/30/24 20:16	1

Lab Sample ID: LCS 880-87034/2-A
Matrix: Solid
Analysis Batch: 87030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1101		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	880.9		mg/Kg		88	70 - 130		
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	89		70 - 130						
o-Terphenyl	83		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-87034/3-A

Matrix: Solid

Analysis Batch: 87030

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87034

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1097		mg/Kg		110	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	873.7		mg/Kg		87	70 - 130	1	20
		LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	89		70 - 130						
o-Terphenyl	82		70 - 130						

Lab Sample ID: 890-6962-A-21-C MS

Matrix: Solid

Analysis Batch: 87030

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	993	1010		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	993	866.7		mg/Kg		87	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	91		70 - 130								

Lab Sample ID: 890-6962-A-21-D MSD

Matrix: Solid

Analysis Batch: 87030

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87034

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	993	1030		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.7	U	993	897.2		mg/Kg		90	70 - 130	3	20
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	92		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87050/1-A

Matrix: Solid

Analysis Batch: 87112

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/01/24 15:56	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-87050/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 87112											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.2		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-87050/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 87112											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	264.5		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-46628-A-61-B MS				Client Sample ID: Matrix Spike							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 87112											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	682	F1	252	966.3	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 880-46628-A-61-C MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 87112											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	682	F1	252	969.7	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 86932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-86932/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 86998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	8021B	87036
MB 880-86932/5-A	Method Blank	Total/NA	Solid	8021B	86932
MB 880-87036/5-A	Method Blank	Total/NA	Solid	8021B	87036
LCS 880-87036/1-A	Lab Control Sample	Total/NA	Solid	8021B	87036
LCSD 880-87036/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87036
890-6962-A-16-B MS	Matrix Spike	Total/NA	Solid	8021B	87036
890-6962-A-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87036

Prep Batch: 87036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	5035	
MB 880-87036/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87036/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87036/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6962-A-16-B MS	Matrix Spike	Total/NA	Solid	5035	
890-6962-A-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 87082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	5035	
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	5035	
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	5035	
MB 880-87082/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87082/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87082/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46655-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-46655-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 87107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	8021B	87082
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	8021B	87082
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	8021B	87082
MB 880-87082/5-A	Method Blank	Total/NA	Solid	8021B	87082
LCS 880-87082/1-A	Lab Control Sample	Total/NA	Solid	8021B	87082
LCSD 880-87082/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87082
880-46655-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	87082
880-46655-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87082

Analysis Batch: 87168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	Total BTEX	
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	Total BTEX	
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	Total BTEX	
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

GC Semi VOA

Analysis Batch: 87030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	8015B NM	87034
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	8015B NM	87034
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	8015B NM	87034
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	8015B NM	87034
MB 880-87034/1-A	Method Blank	Total/NA	Solid	8015B NM	87034
LCS 880-87034/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87034
LCSD 880-87034/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87034
890-6962-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	87034
890-6962-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87034

Prep Batch: 87034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	8015NM Prep	
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 880-87034/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87034/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87034/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6962-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6962-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Total/NA	Solid	8015 NM	
880-46629-2	H-2 (0-0.5)	Total/NA	Solid	8015 NM	
880-46629-3	H-3 (0-0.5)	Total/NA	Solid	8015 NM	
880-46629-4	H-4 (0-0.5)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 87050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Soluble	Solid	DI Leach	
880-46629-2	H-2 (0-0.5)	Soluble	Solid	DI Leach	
880-46629-3	H-3 (0-0.5)	Soluble	Solid	DI Leach	
880-46629-4	H-4 (0-0.5)	Soluble	Solid	DI Leach	
MB 880-87050/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87050/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87050/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46628-A-61-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-46628-A-61-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 87112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46629-1	H-1 (0-0.5)	Soluble	Solid	300.0	87050
880-46629-2	H-2 (0-0.5)	Soluble	Solid	300.0	87050
880-46629-3	H-3 (0-0.5)	Soluble	Solid	300.0	87050
880-46629-4	H-4 (0-0.5)	Soluble	Solid	300.0	87050
MB 880-87050/1-A	Method Blank	Soluble	Solid	300.0	87050
LCS 880-87050/2-A	Lab Control Sample	Soluble	Solid	300.0	87050

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Analysis Batch: 87112 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-87050/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87050
880-46628-A-61-B MS	Matrix Spike	Soluble	Solid	300.0	87050
880-46628-A-61-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87050

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Lab Chronicle

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

Client Sample ID: H-1 (0-0.5)
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46629-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87168	07/31/24 14:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			87121	07/30/24 22:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 22:38	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87050	07/30/24 11:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87112	08/01/24 16:28	SMC	EET MID

Client Sample ID: H-2 (0-0.5)
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46629-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 14:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87168	07/31/24 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			87121	07/30/24 22:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 22:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87050	07/30/24 11:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87112	08/01/24 16:33	SMC	EET MID

Client Sample ID: H-3 (0-0.5)
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46629-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87168	07/31/24 17:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			87121	07/30/24 23:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 23:09	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87050	07/30/24 11:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87112	08/01/24 16:38	SMC	EET MID

Client Sample ID: H-4 (0-0.5)
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46629-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87036	07/30/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86998	07/31/24 03:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87168	07/31/24 03:35	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

Client Sample ID: H-4 (0-0.5)
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46629-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87121	07/30/24 23:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 23:24	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87050	07/30/24 11:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87112	08/01/24 16:43	SMC	EET MID

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46629-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46629-1	H-1 (0-0.5)	Solid	07/29/24 00:00	07/30/24 08:30
880-46629-2	H-2 (0-0.5)	Solid	07/29/24 00:00	07/30/24 08:30
880-46629-3	H-3 (0-0.5)	Solid	07/29/24 00:00	07/30/24 08:30
880-46629-4	H-4 (0-0.5)	Solid	07/29/24 00:00	07/30/24 08:30

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Chain of Custody



880-46629 Chain of Custody

Page 1 of 1

Project Manager:		Ashton Thielke		Bill to: (if different)		Carmona Resources	
Company Name:		Carmona Resources		Company Name:			
Address:		310 West Wall Ste. 500		Address:			
City, State ZIP:		Midland, TX 79701		City, State ZIP:			
Phone:		432-813-8988		Email:		ThielkeA@Carmonaresources.com	

Project Name:		Markham #001		Turn Around		Pres. Code	
Project Number:		2408		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			
Project Location:		Eddy Co, NM		Due Date:		Normal	
Sampler's Name:		IR & CMM		TAT starts the day received by the lab, if received by 4:30pm			
PO #:							

Project Name:		Markham #001		Turn Around		Pres. Code	
Project Number:		2408		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			
Project Location:		Eddy Co, NM		Due Date:		Normal	
Sampler's Name:		IR & CMM		TAT starts the day received by the lab, if received by 4:30pm			
PO #:							

SAMPLE RECEIPT		Temp Blank:		Yes		No		Wet Ice:		Yes		No	
Received Intact:		Yes		No		Thermometer ID:		1256		Yes		No	
Cooler Custody Seals:		Yes		No		Correction Factor:		1.9		Yes		No	
Sample Custody Seals:		Yes		No		Temperature Reading:		1.9		Yes		No	
Total Containers:		Yes		No		Corrected Temperature:		1.9		Yes		No	

Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	BTX 8021B	ANALYSIS REQUEST	PRESERVATIVE CODES	SAMPLE COMMENTS
H-1 (0-0.5')		7/26/2024	7/26/24	X		G	1		X	X			None: NO	
H-2 (0-0.5')		7/26/2024		X		G	1		X	X			Cool: Cool	
H-3 (0-0.5')		7/26/2024		X		G	1		X	X			HCL: HC	
H-4 (0-0.5')		7/26/2024		X		G	1		X	X			H ₂ SO ₄ : H ₂	
													H ₃ PO ₄ : HP	
													NaHSO ₄ : NABIS	
													Na ₂ S ₂ O ₃ : NaSO ₃	
													Zn Acetate+NaOH: Zn	
													NaOH+Ascorbic Acid: SAPC	

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1		7/26/24		7/26/24 0830		2					
3						4					
5						6					

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Revised Date 05/12/2020 Rev. 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-46629-1

SDG Number: Eddy Co, NM

Login Number: 46629

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/12/2024 2:27:34 PM Revision 1

JOB DESCRIPTION

Markham #001
Eddy Co, NM

JOB NUMBER

880-46630-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



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

Generated
8/12/2024 2:27:34 PM
Revision 1

Client: Carmona Resources
Project/Site: Markham #001

Laboratory Job ID: 880-46630-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Markham #001

Job ID: 880-46630-1

Job ID: 880-46630-1

Eurofins Midland

Job Narrative
880-46630-1

REVISION

The report being provided is a revision of the original report sent on 8/2/2024. The report (revision 1) is being revised due to Per client email, requestin samples BH-1, BH-2, and BH-3 @ 10' be ran.

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

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

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

Receipt

The samples were received on 7/30/2024 8:30 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 1.8°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87045 and analytical batch 880-87075 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-87032 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-87035 and analytical batch 880-87032 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-87595 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV have a qualifying CCV 10 samples before and 10 samples afterward, and they are thereby reported without issue.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (885-9143-A-28-B MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH-3 (10') (880-46630-31). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-87745 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-87592 and analytical batch 880-87745 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project: Markham #001

Job ID: 880-46630-1

Job ID: 880-46630-1 (Continued)

Eurofins Midland

matrix performance.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH-1 (10') (880-46630-7), BH-2 (10') (880-46630-19), (LCS 880-87592/2-A) and (LCSD 880-87592/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-46870-A-24-A), (880-46870-A-24-B MS) and (880-46870-A-24-C MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87052 and analytical batch 880-87115 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.

The associated samples are: (820-14436-A-1-E), (820-14436-A-1-F MS) and (820-14436-A-1-G MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87052 and analytical batch 880-87115 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.

The associated samples are: BH-1 (0-1') (880-46630-1), BH-1 (2.0') (880-46630-2), BH-1 (3.0') (880-46630-3), (820-14436-A-11-C), (820-14436-A-11-G MS) and (820-14436-A-11-E MSD).

Method 300_ORGFM_28D - Soluble: The followings sample was analyzed at a dilution due to the Matrix Conductivity Threshold (MCT) of the instrument: BH-2 (6.0') (880-46630-17). The reporting limits have been adjusted accordingly.

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87054 and analytical batch 880-87128 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.

The associated samples are: BH-1 (4.0') (880-46630-4), BH-1 (6.0') (880-46630-5), BH-1 (8.0') (880-46630-6), BH-2 (0-1') (880-46630-13), BH-2 (2.0') (880-46630-14), BH-2 (3.0') (880-46630-15), BH-2 (4.0') (880-46630-16), BH-2 (6.0') (880-46630-17), BH-2 (8.0') (880-46630-18), BH-3 (0-1') (880-46630-25), (880-46630-A-4-E MS) and (880-46630-A-4-F MSD).

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87054 and analytical batch 880-87128 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.

The associated samples are: BH-2 (6.0') (880-46630-17), BH-2 (8.0') (880-46630-18), BH-3 (2.0') (880-46630-26), BH-3 (3.0') (880-46630-27), BH-3 (4.0') (880-46630-28), BH-3 (6.0') (880-46630-29), BH-3 (8.0') (880-46630-30), (880-46630-A-26-D MS) and (880-46630-A-26-E MSD).

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-87786 and analytical batch 880-87827 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-46630-1

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1 F2	0.00202		mg/Kg		07/30/24 11:17	07/30/24 17:48	1
Toluene	<0.00202	U F1	0.00202		mg/Kg		07/30/24 11:17	07/30/24 17:48	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		07/30/24 11:17	07/30/24 17:48	1
m-Xylene & p-Xylene	<0.00404	U F1	0.00404		mg/Kg		07/30/24 11:17	07/30/24 17:48	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		07/30/24 11:17	07/30/24 17:48	1
Xylenes, Total	<0.00404	U F1	0.00404		mg/Kg		07/30/24 11:17	07/30/24 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/30/24 11:17	07/30/24 17:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/30/24 11:17	07/30/24 17:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/30/24 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/30/24 23:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/30/24 23:40	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/30/24 23:40	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/30/24 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	07/30/24 10:46	07/30/24 23:40	1
o-Terphenyl	91		70 - 130	07/30/24 10:46	07/30/24 23:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		25.0		mg/Kg			08/01/24 02:06	5

Client Sample ID: BH-1 (2.0')

Lab Sample ID: 880-46630-2

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 18:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/30/24 11:17	07/30/24 18:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/30/24 11:17	07/30/24 18:09	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (2.0')

Lab Sample ID: 880-46630-2

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/30/24 18:09	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			07/30/24 23:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 23:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 23:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/30/24 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				07/30/24 10:46	07/30/24 23:55	1
o-Terphenyl	90		70 - 130				07/30/24 10:46	07/30/24 23:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	941		5.02		mg/Kg			08/01/24 02:12	1

Client Sample ID: BH-1 (3.0')

Lab Sample ID: 880-46630-3

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				07/30/24 11:17	07/30/24 18:29	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/30/24 11:17	07/30/24 18:29	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			07/30/24 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/31/24 00:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 00:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 00:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (3.0')

Lab Sample ID: 880-46630-3

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				07/30/24 10:46	07/31/24 00:26	1
o-Terphenyl	95		70 - 130				07/30/24 10:46	07/31/24 00:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2440		25.2		mg/Kg			08/01/24 02:17	5

Client Sample ID: BH-1 (4.0')

Lab Sample ID: 880-46630-4

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				07/30/24 11:17	07/30/24 18:50	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/30/24 11:17	07/30/24 18:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/30/24 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			07/31/24 00:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		07/30/24 10:46	07/31/24 00:41	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		07/30/24 10:46	07/31/24 00:41	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/30/24 10:46	07/31/24 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/30/24 10:46	07/31/24 00:41	1
o-Terphenyl	82		70 - 130				07/30/24 10:46	07/31/24 00:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3750	F1	49.9		mg/Kg			08/02/24 00:00	10

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (6.0')

Lab Sample ID: 880-46630-5

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 19:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/30/24 11:17	07/30/24 19:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/30/24 11:17	07/30/24 19:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/30/24 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/31/24 00:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 00:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 00:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/30/24 10:46	07/31/24 00:56	1
o-Terphenyl	83		70 - 130	07/30/24 10:46	07/31/24 00:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4300		50.2		mg/Kg			08/02/24 00:24	10

Client Sample ID: BH-1 (8.0')

Lab Sample ID: 880-46630-6

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 19:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/30/24 11:17	07/30/24 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	07/30/24 11:17	07/30/24 19:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/30/24 11:17	07/30/24 19:31	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (8.0')

Lab Sample ID: 880-46630-6

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/30/24 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/31/24 01:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 01:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 01:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 10:46	07/31/24 01:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/30/24 10:46	07/31/24 01:12	1
o-Terphenyl	83		70 - 130				07/30/24 10:46	07/31/24 01:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1770		24.9		mg/Kg			08/02/24 00:32	5

Client Sample ID: BH-1 (10')

Lab Sample ID: 880-46630-7

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/06/24 11:12	08/06/24 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				08/06/24 11:12	08/06/24 20:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/06/24 11:12	08/06/24 20:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/06/24 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/08/24 06:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 08:20	08/08/24 06:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		08/06/24 08:20	08/08/24 06:38	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (10')

Lab Sample ID: 880-46630-7

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 08:20	08/08/24 06:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				08/06/24 08:20	08/08/24 06:38	1
o-Terphenyl	133	S1+	70 - 130				08/06/24 08:20	08/08/24 06:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030	F1	24.8		mg/Kg			08/08/24 17:59	5

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

Lab Sample ID: 880-46630-13

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 19:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 19:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 19:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 19:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 19:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/30/24 11:17	07/30/24 19:52	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/30/24 19:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/30/24 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/31/24 01:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/31/24 01:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/31/24 01:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 10:46	07/31/24 01:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				07/30/24 10:46	07/31/24 01:28	1
o-Terphenyl	90		70 - 130				07/30/24 10:46	07/31/24 01:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	905		5.02		mg/Kg			08/02/24 00:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-2 (2.0')

Lab Sample ID: 880-46630-14

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/30/24 11:17	07/30/24 20:12	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/30/24 11:17	07/30/24 20:12	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			07/30/24 20:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/31/24 01:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/31/24 01:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/31/24 01:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 10:46	07/31/24 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	07/30/24 10:46	07/31/24 01:43	1
o-Terphenyl	93		70 - 130	07/30/24 10:46	07/31/24 01:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	566		4.98		mg/Kg			08/02/24 00:48	1

Client Sample ID: BH-2 (3.0')

Lab Sample ID: 880-46630-15

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 20:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/30/24 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/30/24 11:17	07/30/24 20:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/30/24 11:17	07/30/24 20:33	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-2 (3.0')

Lab Sample ID: 880-46630-15

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/30/24 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/31/24 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 01:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 01:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/31/24 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				07/30/24 10:46	07/31/24 01:58	1
o-Terphenyl	96		70 - 130				07/30/24 10:46	07/31/24 01:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		25.1		mg/Kg			08/02/24 01:12	5

Client Sample ID: BH-2 (4.0')

Lab Sample ID: 880-46630-16

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 20:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 20:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 20:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 20:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 20:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/30/24 11:17	07/30/24 20:53	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/30/24 11:17	07/30/24 20:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/30/24 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/24 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/30/24 10:55	07/30/24 21:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		07/30/24 10:55	07/30/24 21:04	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-2 (4.0')

Lab Sample ID: 880-46630-16

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 10:55	07/30/24 21:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				07/30/24 10:55	07/30/24 21:04	1
o-Terphenyl	108		70 - 130				07/30/24 10:55	07/30/24 21:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		24.8		mg/Kg			08/02/24 01:19	5

Client Sample ID: BH-2 (6.0')

Lab Sample ID: 880-46630-17

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/30/24 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				07/30/24 11:17	07/30/24 22:28	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/30/24 22:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/30/24 22:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/24 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 21:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		07/30/24 10:55	07/30/24 21:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				07/30/24 10:55	07/30/24 21:51	1
o-Terphenyl	100		70 - 130				07/30/24 10:55	07/30/24 21:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3340		25.2		mg/Kg			08/02/24 12:46	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-2 (8.0')

Lab Sample ID: 880-46630-18

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 22:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/30/24 11:17	07/30/24 22:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/30/24 11:17	07/30/24 22:48	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			07/30/24 22:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/24 22:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/30/24 10:55	07/30/24 22:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		07/30/24 10:55	07/30/24 22:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 10:55	07/30/24 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	07/30/24 10:55	07/30/24 22:07	1
o-Terphenyl	105		70 - 130	07/30/24 10:55	07/30/24 22:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2370		25.2		mg/Kg			08/02/24 12:54	5

Client Sample ID: BH-2 (10')

Lab Sample ID: 880-46630-19

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 21:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/24 11:12	08/06/24 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/06/24 11:12	08/06/24 21:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/06/24 11:12	08/06/24 21:03	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-2 (10')

Lab Sample ID: 880-46630-19

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/06/24 21:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/08/24 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/06/24 08:20	08/08/24 06:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		08/06/24 08:20	08/08/24 06:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/06/24 08:20	08/08/24 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	08/06/24 08:20	08/08/24 06:55	1
o-Terphenyl	132	S1+	70 - 130	08/06/24 08:20	08/08/24 06:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		4.98		mg/Kg			08/08/24 18:15	1

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

Lab Sample ID: 880-46630-25

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/30/24 23:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/30/24 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/30/24 11:17	07/30/24 23:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/30/24 11:17	07/30/24 23:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/30/24 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			07/30/24 22:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		07/30/24 10:55	07/30/24 22:22	1
Diesel Range Organics (Over C10-C28)	<49.6	U **	49.6		mg/Kg		07/30/24 10:55	07/30/24 22:22	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-46630-25

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/30/24 10:55	07/30/24 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				07/30/24 10:55	07/30/24 22:22	1
o-Terphenyl	101		70 - 130				07/30/24 10:55	07/30/24 22:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		5.02		mg/Kg			08/02/24 01:43	1

Client Sample ID: BH-3 (2.0')

Lab Sample ID: 880-46630-26

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 23:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 23:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 23:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/30/24 11:17	07/30/24 23:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/24 11:17	07/30/24 23:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/30/24 11:17	07/30/24 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				07/30/24 11:17	07/30/24 23:29	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/30/24 23:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/30/24 23:29	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			07/30/24 22:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/30/24 10:55	07/30/24 22:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		07/30/24 10:55	07/30/24 22:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 10:55	07/30/24 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				07/30/24 10:55	07/30/24 22:38	1
o-Terphenyl	101		70 - 130				07/30/24 10:55	07/30/24 22:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	453	F1	4.98		mg/Kg			08/02/24 01:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-3 (3.0')

Lab Sample ID: 880-46630-27

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 23:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 23:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 23:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 23:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 23:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 11:17	07/30/24 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/30/24 11:17	07/30/24 23:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/30/24 11:17	07/30/24 23:49	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			07/30/24 23:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/24 22:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/30/24 10:55	07/30/24 22:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		07/30/24 10:55	07/30/24 22:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 10:55	07/30/24 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	07/30/24 10:55	07/30/24 22:53	1
o-Terphenyl	101		70 - 130	07/30/24 10:55	07/30/24 22:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	741		25.2		mg/Kg			08/02/24 02:15	5

Client Sample ID: BH-3 (4.0')

Lab Sample ID: 880-46630-28

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/31/24 00:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/31/24 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	07/30/24 11:17	07/31/24 00:10	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/30/24 11:17	07/31/24 00:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-3 (4.0')

Lab Sample ID: 880-46630-28

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/31/24 00:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/30/24 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/30/24 10:55	07/30/24 23:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		07/30/24 10:55	07/30/24 23:09	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 10:55	07/30/24 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				07/30/24 10:55	07/30/24 23:09	1
o-Terphenyl	110		70 - 130				07/30/24 10:55	07/30/24 23:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		25.1		mg/Kg			08/02/24 02:23	5

Client Sample ID: BH-3 (6.0')

Lab Sample ID: 880-46630-29

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 11:17	07/31/24 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/30/24 11:17	07/31/24 00:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/30/24 11:17	07/31/24 00:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/31/24 00:30	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		mg/Kg			07/30/24 23:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 23:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		07/30/24 10:55	07/30/24 23:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-3 (6.0')

Lab Sample ID: 880-46630-29

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				07/30/24 10:55	07/30/24 23:24	1
o-Terphenyl	112		70 - 130				07/30/24 10:55	07/30/24 23:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		24.9		mg/Kg			08/02/24 02:47	5

Client Sample ID: BH-3 (8.0')

Lab Sample ID: 880-46630-30

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 11:17	07/31/24 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/30/24 11:17	07/31/24 00:51	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 11:17	07/31/24 00:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/31/24 00:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	727		49.9		mg/Kg			07/30/24 23:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/30/24 10:55	07/30/24 23:40	1
Diesel Range Organics (Over C10-C28)	727	++	49.9		mg/Kg		07/30/24 10:55	07/30/24 23:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 10:55	07/30/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				07/30/24 10:55	07/30/24 23:40	1
o-Terphenyl	112		70 - 130				07/30/24 10:55	07/30/24 23:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2130		25.2		mg/Kg			08/02/24 02:55	5

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-3 (10')

Lab Sample ID: 880-46630-31

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:12	08/06/24 21:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/06/24 11:12	08/06/24 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/06/24 11:12	08/06/24 21:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/06/24 11:12	08/06/24 21:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/06/24 21:24	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			08/07/24 01:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/06/24 10:46	08/07/24 01:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/06/24 10:46	08/07/24 01:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/06/24 10:46	08/07/24 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130	08/06/24 10:46	08/07/24 01:50	1
o-Terphenyl	133	S1+	70 - 130	08/06/24 10:46	08/07/24 01:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	596		4.97		mg/Kg			08/08/24 18:20	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-46630-1	BH-1 (0-1')	103	96
880-46630-1 MS	BH-1 (0-1')	105	97
880-46630-1 MSD	BH-1 (0-1')	103	95
880-46630-2	BH-1 (2.0')	104	96
880-46630-3	BH-1 (3.0')	106	98
880-46630-4	BH-1 (4.0')	102	96
880-46630-5	BH-1 (6.0')	109	97
880-46630-6	BH-1 (8.0')	105	97
880-46630-7	BH-1 (10')	98	91
880-46630-13	BH-2 (0-1')	105	97
880-46630-14	BH-2 (2.0')	108	96
880-46630-15	BH-2 (3.0')	106	96
880-46630-16	BH-2 (4.0')	108	98
880-46630-17	BH-2 (6.0')	102	97
880-46630-18	BH-2 (8.0')	103	96
880-46630-19	BH-2 (10')	101	94
880-46630-25	BH-3 (0-1')	107	96
880-46630-26	BH-3 (2.0')	110	97
880-46630-27	BH-3 (3.0')	102	97
880-46630-28	BH-3 (4.0')	105	97
880-46630-29	BH-3 (6.0')	103	96
880-46630-30	BH-3 (8.0')	109	97
880-46630-31	BH-3 (10')	103	94
885-9144-A-10-B MS	Matrix Spike	100	101
885-9144-A-10-C MSD	Matrix Spike Duplicate	94	102
LCS 880-87045/1-A	Lab Control Sample	101	101
LCS 880-87616/1-A	Lab Control Sample	94	102
LCSD 880-87045/2-A	Lab Control Sample Dup	100	100
LCSD 880-87616/2-A	Lab Control Sample Dup	97	99
MB 880-87045/5-A	Method Blank	101	90
MB 880-87616/5-A	Method Blank	98	83

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-46630-1	BH-1 (0-1')	100	91
880-46630-2	BH-1 (2.0')	99	90
880-46630-3	BH-1 (3.0')	104	95
880-46630-4	BH-1 (4.0')	89	82
880-46630-5	BH-1 (6.0')	92	83
880-46630-6	BH-1 (8.0')	91	83
880-46630-7	BH-1 (10')	131 S1+	133 S1+
880-46630-13	BH-2 (0-1')	99	90

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Surrogate Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-46630-14	BH-2 (2.0')	104	93
880-46630-15	BH-2 (3.0')	107	96
880-46630-16	BH-2 (4.0')	109	108
880-46630-16 MS	BH-2 (4.0')	105	114
880-46630-16 MSD	BH-2 (4.0')	105	114
880-46630-17	BH-2 (6.0')	101	100
880-46630-18	BH-2 (8.0')	105	105
880-46630-19	BH-2 (10')	133 S1+	132 S1+
880-46630-25	BH-3 (0-1')	101	101
880-46630-26	BH-3 (2.0')	102	101
880-46630-27	BH-3 (3.0')	102	101
880-46630-28	BH-3 (4.0')	110	110
880-46630-29	BH-3 (6.0')	112	112
880-46630-30	BH-3 (8.0')	106	112
880-46630-31	BH-3 (10')	150 S1+	133 S1+
880-46870-A-24-B MS	Matrix Spike	120	136 S1+
880-46870-A-24-C MSD	Matrix Spike Duplicate	120	134 S1+
885-9143-A-28-B MS	Matrix Spike	130	124
885-9143-A-28-C MSD	Matrix Spike Duplicate	129	124
890-6962-A-21-C MS	Matrix Spike	97	91
890-6962-A-21-D MSD	Matrix Spike Duplicate	97	92
LCS 880-87034/2-A	Lab Control Sample	89	83
LCS 880-87035/2-A	Lab Control Sample	101	196 S1+
LCS 880-87592/2-A	Lab Control Sample	134 S1+	149 S1+
LCS 880-87612/2-A	Lab Control Sample	103	95
LCSD 880-87034/3-A	Lab Control Sample Dup	89	82
LCSD 880-87035/3-A	Lab Control Sample Dup	107	218 S1+
LCSD 880-87592/3-A	Lab Control Sample Dup	135 S1+	150 S1+
LCSD 880-87612/3-A	Lab Control Sample Dup	105	99
MB 880-87034/1-A	Method Blank	79	78
MB 880-87035/1-A	Method Blank	86	92
MB 880-87592/1-A	Method Blank	118	119
MB 880-87612/1-A	Method Blank	91	85

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87045/5-A

Matrix: Solid

Analysis Batch: 87075

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 17:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 17:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 17:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/30/24 17:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 11:17	07/30/24 17:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 11:17	07/30/24 17:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/30/24 11:17	07/30/24 17:26	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/30/24 11:17	07/30/24 17:26	1

Lab Sample ID: LCS 880-87045/1-A

Matrix: Solid

Analysis Batch: 87075

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1215		mg/Kg		121	70 - 130
Toluene	0.100	0.1092		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1121		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2337		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1145		mg/Kg		114	70 - 130

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

Lab Sample ID: LCSD 880-87045/2-A

Matrix: Solid

Analysis Batch: 87075

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87045

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1216		mg/Kg		122	70 - 130	0	35
Toluene	0.100	0.1094		mg/Kg		109	70 - 130	0	35
Ethylbenzene	0.100	0.1122		mg/Kg		112	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2342		mg/Kg		117	70 - 130	0	35
o-Xylene	0.100	0.1147		mg/Kg		115	70 - 130	0	35

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

Lab Sample ID: 880-46630-1 MS

Matrix: Solid

Analysis Batch: 87075

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

Prep Type: Total/NA

Prep Batch: 87045

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F1 F2	0.100	0.07196		mg/Kg		72	70 - 130
Toluene	<0.00202	U F1	0.100	0.06625	F1	mg/Kg		66	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-46630-1 MS

Matrix: Solid

Analysis Batch: 87075

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

Prep Type: Total/NA

Prep Batch: 87045

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U F1	0.100	0.06926	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00404	U F1	0.200	0.1446		mg/Kg		72	70 - 130
o-Xylene	<0.00202	U F1	0.100	0.07369		mg/Kg		74	70 - 130

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

Lab Sample ID: 880-46630-1 MSD

Matrix: Solid

Analysis Batch: 87075

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

Prep Type: Total/NA

Prep Batch: 87045

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1 F2	0.100	0.04889	F1 F2	mg/Kg		49	70 - 130	38	35
Toluene	<0.00202	U F1	0.100	0.04726	F1	mg/Kg		47	70 - 130	33	35
Ethylbenzene	<0.00202	U F1	0.100	0.05249	F1	mg/Kg		52	70 - 130	28	35
m-Xylene & p-Xylene	<0.00404	U F1	0.200	0.1100	F1	mg/Kg		55	70 - 130	27	35
o-Xylene	<0.00202	U F1	0.100	0.05767	F1	mg/Kg		58	70 - 130	24	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-87616/5-A

Matrix: Solid

Analysis Batch: 87664

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:12	08/06/24 17:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/24 11:12	08/06/24 17:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/06/24 11:12	08/06/24 17:57	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/06/24 11:12	08/06/24 17:57	1

Lab Sample ID: LCS 880-87616/1-A

Matrix: Solid

Analysis Batch: 87664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1037		mg/Kg		104	70 - 130
Toluene	0.100	0.08955		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09714		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1931		mg/Kg		97	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-87616/1-A

Matrix: Solid

Analysis Batch: 87664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09793		mg/Kg		98	70 - 130

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

Lab Sample ID: LCSD 880-87616/2-A

Matrix: Solid

Analysis Batch: 87664

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87616

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09488		mg/Kg		95	70 - 130	9	35
Toluene	0.100	0.08237		mg/Kg		82	70 - 130	8	35
Ethylbenzene	0.100	0.08994		mg/Kg		90	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1775		mg/Kg		89	70 - 130	8	35
o-Xylene	0.100	0.09070		mg/Kg		91	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 885-9144-A-10-B MS

Matrix: Solid

Analysis Batch: 87664

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.09524		mg/Kg		95	70 - 130
Toluene	<0.00202	U	0.100	0.08173		mg/Kg		82	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.08898		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1760		mg/Kg		88	70 - 130
o-Xylene	<0.00202	U	0.100	0.08965		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 885-9144-A-10-C MSD

Matrix: Solid

Analysis Batch: 87664

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.1074		mg/Kg		107	70 - 130	12	35
Toluene	<0.00202	U	0.100	0.09318		mg/Kg		93	70 - 130	13	35
Ethylbenzene	<0.00202	U	0.100	0.09987		mg/Kg		100	70 - 130	12	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1964		mg/Kg		98	70 - 130	11	35
o-Xylene	<0.00202	U	0.100	0.09913		mg/Kg		99	70 - 130	10	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

Lab Sample ID: 885-9144-A-10-C MSD

Matrix: Solid

Analysis Batch: 87664

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87616

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

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

Lab Sample ID: MB 880-87034/1-A

Matrix: Solid

Analysis Batch: 87030

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87034

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 20:16	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 20:16	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:46	07/30/24 20:16	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	79		70 - 130				07/30/24 10:46	07/30/24 20:16	1	
o-Terphenyl	78		70 - 130				07/30/24 10:46	07/30/24 20:16	1	

Lab Sample ID: LCS 880-87034/2-A

Matrix: Solid

Analysis Batch: 87030

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87034

Analyte	Spike	LCS	LCS							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1101		mg/Kg		110		70 - 130		
Diesel Range Organics (Over C10-C28)	1000	880.9		mg/Kg		88		70 - 130		
Surrogate		LCS	LCS							
	%Recovery	Qualifier	Limits							
1-Chlorooctane	89		70 - 130							
o-Terphenyl	83		70 - 130							

Lab Sample ID: LCSD 880-87034/3-A

Matrix: Solid

Analysis Batch: 87030

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87034

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	1097		mg/Kg		110		0	20	
Diesel Range Organics (Over C10-C28)	1000	873.7		mg/Kg		87		1	20	
Surrogate		LCSD	LCSD							
	%Recovery	Qualifier	Limits							
1-Chlorooctane	89		70 - 130							
o-Terphenyl	82		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-6962-A-21-C MS
Matrix: Solid
Analysis Batch: 87030

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 87034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	993	1010		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	993	866.7		mg/Kg		87	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
o-Terphenyl	91		70 - 130						

Lab Sample ID: 890-6962-A-21-D MSD
Matrix: Solid
Analysis Batch: 87030

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 87034

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	993	1030		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.7	U	993	897.2		mg/Kg		90	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: MB 880-87035/1-A
Matrix: Solid
Analysis Batch: 87032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 20:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 20:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 10:55	07/30/24 20:16	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	86		70 - 130	07/30/24 10:55	07/30/24 20:16	1			
o-Terphenyl	92		70 - 130	07/30/24 10:55	07/30/24 20:16	1			

Lab Sample ID: LCS 880-87035/2-A
Matrix: Solid
Analysis Batch: 87032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1131		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1708	*+	mg/Kg		171	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-87035/2-A

Matrix: Solid

Analysis Batch: 87032

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87035

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	196	S1+	70 - 130

Lab Sample ID: LCSD 880-87035/3-A

Matrix: Solid

Analysis Batch: 87032

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87035

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1172		mg/Kg		117	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1865	*+	mg/Kg		187	70 - 130	9	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	218	S1+	70 - 130

Lab Sample ID: 880-46630-16 MS

Matrix: Solid

Analysis Batch: 87032

Client Sample ID: BH-2 (4.0')

Prep Type: Total/NA

Prep Batch: 87035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1024		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+	995	1082		mg/Kg		109	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: 880-46630-16 MSD

Matrix: Solid

Analysis Batch: 87032

Client Sample ID: BH-2 (4.0')

Prep Type: Total/NA

Prep Batch: 87035

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1012		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	995	1085		mg/Kg		109	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	114		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-87592/1-A

Matrix: Solid

Analysis Batch: 87745

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 08:19	08/08/24 00:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/06/24 08:19	08/08/24 00:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 08:19	08/08/24 00:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				08/06/24 08:19	08/08/24 00:13	1
o-Terphenyl	119		70 - 130				08/06/24 08:19	08/08/24 00:13	1

Lab Sample ID: LCS 880-87592/2-A

Matrix: Solid

Analysis Batch: 87745

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87592

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1233		mg/Kg		123	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1337	*+	mg/Kg		134	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	134	S1+	70 - 130					
o-Terphenyl	149	S1+	70 - 130					

Lab Sample ID: LCSD 880-87592/3-A

Matrix: Solid

Analysis Batch: 87745

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87592

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1245		mg/Kg		124	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1419	*+	mg/Kg		142	70 - 130	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	135	S1+	70 - 130						
o-Terphenyl	150	S1+	70 - 130						

Lab Sample ID: 880-46870-A-24-B MS

Matrix: Solid

Analysis Batch: 87745

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87592

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	1069		mg/Kg		107	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U *	996	1201		mg/Kg		121	70 - 130	

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-46870-A-24-B MS

Matrix: Solid

Analysis Batch: 87745

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87592

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: 880-46870-A-24-C MSD

Matrix: Solid

Analysis Batch: 87745

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87592

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	1092		mg/Kg		110	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U **	996	1155		mg/Kg		116	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	134	S1+	70 - 130

Lab Sample ID: MB 880-87612/1-A

Matrix: Solid

Analysis Batch: 87595

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 10:46	08/06/24 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/06/24 10:46	08/06/24 20:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 10:46	08/06/24 20:14	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	91		70 - 130	08/06/24 10:46	08/06/24 20:14	1
o-Terphenyl	85		70 - 130	08/06/24 10:46	08/06/24 20:14	1

Lab Sample ID: LCS 880-87612/2-A

Matrix: Solid

Analysis Batch: 87595

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1088		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	931.9		mg/Kg		93	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	95		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-87612/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 87595				Prep Batch: 87612							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1095		mg/Kg		110	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	966.0		mg/Kg		97	70 - 130	4	20
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	99		70 - 130								

Lab Sample ID: 885-9143-A-28-B MS				Client Sample ID: Matrix Spike							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 87595				Prep Batch: 87612							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	999.2		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	890.8		mg/Kg		89	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	130		70 - 130								
o-Terphenyl	124		70 - 130								

Lab Sample ID: 885-9143-A-28-C MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 87595				Prep Batch: 87612							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1001		mg/Kg		100	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	875.6		mg/Kg		88	70 - 130	2	20
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	129		70 - 130								
o-Terphenyl	124		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87052/1-A				Client Sample ID: Method Blank							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 87115											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			07/31/24 23:40	1		

QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-87052/2-A

Matrix: Solid

Analysis Batch: 87115

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-87052/3-A

Matrix: Solid

Analysis Batch: 87115

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.2		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 820-14436-A-1-F MS

Matrix: Solid

Analysis Batch: 87115

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3480	F1	1240	4572	F1	mg/Kg		88	90 - 110

Lab Sample ID: 820-14436-A-1-G MSD

Matrix: Solid

Analysis Batch: 87115

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3480	F1	1240	4572	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: 820-14436-A-11-E MSD

Matrix: Solid

Analysis Batch: 87115

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9480	F1	4970	17330	F1	mg/Kg		158	90 - 110	0	20

Lab Sample ID: 820-14436-A-11-G MS

Matrix: Solid

Analysis Batch: 87115

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9480	F1	4970	17280	F1	mg/Kg		157	90 - 110

Lab Sample ID: MB 880-87054/1-A

Matrix: Solid

Analysis Batch: 87128

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/01/24 23:36	1

Lab Sample ID: LCS 880-87054/2-A

Matrix: Solid

Analysis Batch: 87128

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	232.9		mg/Kg		93	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-87054/3-A

Matrix: Solid

Analysis Batch: 87128

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	233.8		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-46630-4 MS

Matrix: Solid

Analysis Batch: 87128

Client Sample ID: BH-1 (4.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3750	F1	2500	6697	F1	mg/Kg		118	90 - 110		

Lab Sample ID: 880-46630-4 MSD

Matrix: Solid

Analysis Batch: 87128

Client Sample ID: BH-1 (4.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3750	F1	2500	6713	F1	mg/Kg		119	90 - 110	0	20

Lab Sample ID: 880-46630-26 MS

Matrix: Solid

Analysis Batch: 87128

Client Sample ID: BH-3 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	453	F1	249	663.0	F1	mg/Kg		84	90 - 110		

Lab Sample ID: 880-46630-26 MSD

Matrix: Solid

Analysis Batch: 87128

Client Sample ID: BH-3 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	453	F1	249	669.3	F1	mg/Kg		87	90 - 110	1	20

Lab Sample ID: MB 880-87786/1-A

Matrix: Solid

Analysis Batch: 87827

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/08/24 17:44	1

Lab Sample ID: LCS 880-87786/2-A

Matrix: Solid

Analysis Batch: 87827

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	233.6		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-87786/3-A

Matrix: Solid

Analysis Batch: 87827

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	235.9		mg/Kg		94	90 - 110	1	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-46630-7 MS										Client Sample ID: BH-1 (10')				
Matrix: Solid										Prep Type: Soluble				
Analysis Batch: 87827														
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits					
Chloride	1030	F1	1240	2479	F1	mg/Kg		117	90 - 110					

Lab Sample ID: 880-46630-7 MSD										Client Sample ID: BH-1 (10')				
Matrix: Solid										Prep Type: Soluble				
Analysis Batch: 87827														
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit			
Chloride	1030	F1	1240	2499	F1	mg/Kg		119	90 - 110	1	20			

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 87045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	5035	
880-46630-2	BH-1 (2.0')	Total/NA	Solid	5035	
880-46630-3	BH-1 (3.0')	Total/NA	Solid	5035	
880-46630-4	BH-1 (4.0')	Total/NA	Solid	5035	
880-46630-5	BH-1 (6.0')	Total/NA	Solid	5035	
880-46630-6	BH-1 (8.0')	Total/NA	Solid	5035	
880-46630-13	BH-2 (0-1')	Total/NA	Solid	5035	
880-46630-14	BH-2 (2.0')	Total/NA	Solid	5035	
880-46630-15	BH-2 (3.0')	Total/NA	Solid	5035	
880-46630-16	BH-2 (4.0')	Total/NA	Solid	5035	
880-46630-17	BH-2 (6.0')	Total/NA	Solid	5035	
880-46630-18	BH-2 (8.0')	Total/NA	Solid	5035	
880-46630-25	BH-3 (0-1')	Total/NA	Solid	5035	
880-46630-26	BH-3 (2.0')	Total/NA	Solid	5035	
880-46630-27	BH-3 (3.0')	Total/NA	Solid	5035	
880-46630-28	BH-3 (4.0')	Total/NA	Solid	5035	
880-46630-29	BH-3 (6.0')	Total/NA	Solid	5035	
880-46630-30	BH-3 (8.0')	Total/NA	Solid	5035	
MB 880-87045/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87045/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87045/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46630-1 MS	BH-1 (0-1')	Total/NA	Solid	5035	
880-46630-1 MSD	BH-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 87075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	8021B	87045
880-46630-2	BH-1 (2.0')	Total/NA	Solid	8021B	87045
880-46630-3	BH-1 (3.0')	Total/NA	Solid	8021B	87045
880-46630-4	BH-1 (4.0')	Total/NA	Solid	8021B	87045
880-46630-5	BH-1 (6.0')	Total/NA	Solid	8021B	87045
880-46630-6	BH-1 (8.0')	Total/NA	Solid	8021B	87045
880-46630-13	BH-2 (0-1')	Total/NA	Solid	8021B	87045
880-46630-14	BH-2 (2.0')	Total/NA	Solid	8021B	87045
880-46630-15	BH-2 (3.0')	Total/NA	Solid	8021B	87045
880-46630-16	BH-2 (4.0')	Total/NA	Solid	8021B	87045
880-46630-17	BH-2 (6.0')	Total/NA	Solid	8021B	87045
880-46630-18	BH-2 (8.0')	Total/NA	Solid	8021B	87045
880-46630-25	BH-3 (0-1')	Total/NA	Solid	8021B	87045
880-46630-26	BH-3 (2.0')	Total/NA	Solid	8021B	87045
880-46630-27	BH-3 (3.0')	Total/NA	Solid	8021B	87045
880-46630-28	BH-3 (4.0')	Total/NA	Solid	8021B	87045
880-46630-29	BH-3 (6.0')	Total/NA	Solid	8021B	87045
880-46630-30	BH-3 (8.0')	Total/NA	Solid	8021B	87045
MB 880-87045/5-A	Method Blank	Total/NA	Solid	8021B	87045
LCS 880-87045/1-A	Lab Control Sample	Total/NA	Solid	8021B	87045
LCSD 880-87045/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87045
880-46630-1 MS	BH-1 (0-1')	Total/NA	Solid	8021B	87045
880-46630-1 MSD	BH-1 (0-1')	Total/NA	Solid	8021B	87045

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QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 87163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	Total BTEX	
880-46630-2	BH-1 (2.0')	Total/NA	Solid	Total BTEX	
880-46630-3	BH-1 (3.0')	Total/NA	Solid	Total BTEX	
880-46630-4	BH-1 (4.0')	Total/NA	Solid	Total BTEX	
880-46630-5	BH-1 (6.0')	Total/NA	Solid	Total BTEX	
880-46630-6	BH-1 (8.0')	Total/NA	Solid	Total BTEX	
880-46630-7	BH-1 (10')	Total/NA	Solid	Total BTEX	
880-46630-13	BH-2 (0-1')	Total/NA	Solid	Total BTEX	
880-46630-14	BH-2 (2.0')	Total/NA	Solid	Total BTEX	
880-46630-15	BH-2 (3.0')	Total/NA	Solid	Total BTEX	
880-46630-16	BH-2 (4.0')	Total/NA	Solid	Total BTEX	
880-46630-17	BH-2 (6.0')	Total/NA	Solid	Total BTEX	
880-46630-18	BH-2 (8.0')	Total/NA	Solid	Total BTEX	
880-46630-19	BH-2 (10')	Total/NA	Solid	Total BTEX	
880-46630-25	BH-3 (0-1')	Total/NA	Solid	Total BTEX	
880-46630-26	BH-3 (2.0')	Total/NA	Solid	Total BTEX	
880-46630-27	BH-3 (3.0')	Total/NA	Solid	Total BTEX	
880-46630-28	BH-3 (4.0')	Total/NA	Solid	Total BTEX	
880-46630-29	BH-3 (6.0')	Total/NA	Solid	Total BTEX	
880-46630-30	BH-3 (8.0')	Total/NA	Solid	Total BTEX	
880-46630-31	BH-3 (10')	Total/NA	Solid	Total BTEX	

Prep Batch: 87616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Total/NA	Solid	5035	
880-46630-19	BH-2 (10')	Total/NA	Solid	5035	
880-46630-31	BH-3 (10')	Total/NA	Solid	5035	
MB 880-87616/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87616/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87616/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
885-9144-A-10-B MS	Matrix Spike	Total/NA	Solid	5035	
885-9144-A-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 87664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Total/NA	Solid	8021B	87616
880-46630-19	BH-2 (10')	Total/NA	Solid	8021B	87616
880-46630-31	BH-3 (10')	Total/NA	Solid	8021B	87616
MB 880-87616/5-A	Method Blank	Total/NA	Solid	8021B	87616
LCS 880-87616/1-A	Lab Control Sample	Total/NA	Solid	8021B	87616
LCSD 880-87616/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87616
885-9144-A-10-B MS	Matrix Spike	Total/NA	Solid	8021B	87616
885-9144-A-10-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87616

GC Semi VOA

Analysis Batch: 87030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	8015B NM	87034
880-46630-2	BH-1 (2.0')	Total/NA	Solid	8015B NM	87034
880-46630-3	BH-1 (3.0')	Total/NA	Solid	8015B NM	87034

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 87030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-4	BH-1 (4.0')	Total/NA	Solid	8015B NM	87034
880-46630-5	BH-1 (6.0')	Total/NA	Solid	8015B NM	87034
880-46630-6	BH-1 (8.0')	Total/NA	Solid	8015B NM	87034
880-46630-13	BH-2 (0-1')	Total/NA	Solid	8015B NM	87034
880-46630-14	BH-2 (2.0')	Total/NA	Solid	8015B NM	87034
880-46630-15	BH-2 (3.0')	Total/NA	Solid	8015B NM	87034
MB 880-87034/1-A	Method Blank	Total/NA	Solid	8015B NM	87034
LCS 880-87034/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87034
LCSD 880-87034/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87034
890-6962-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	87034
890-6962-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87034

Analysis Batch: 87032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-16	BH-2 (4.0')	Total/NA	Solid	8015B NM	87035
880-46630-17	BH-2 (6.0')	Total/NA	Solid	8015B NM	87035
880-46630-18	BH-2 (8.0')	Total/NA	Solid	8015B NM	87035
880-46630-25	BH-3 (0-1')	Total/NA	Solid	8015B NM	87035
880-46630-26	BH-3 (2.0')	Total/NA	Solid	8015B NM	87035
880-46630-27	BH-3 (3.0')	Total/NA	Solid	8015B NM	87035
880-46630-28	BH-3 (4.0')	Total/NA	Solid	8015B NM	87035
880-46630-29	BH-3 (6.0')	Total/NA	Solid	8015B NM	87035
880-46630-30	BH-3 (8.0')	Total/NA	Solid	8015B NM	87035
MB 880-87035/1-A	Method Blank	Total/NA	Solid	8015B NM	87035
LCS 880-87035/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87035
LCSD 880-87035/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87035
880-46630-16 MS	BH-2 (4.0')	Total/NA	Solid	8015B NM	87035
880-46630-16 MSD	BH-2 (4.0')	Total/NA	Solid	8015B NM	87035

Prep Batch: 87034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-46630-2	BH-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-46630-3	BH-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-46630-4	BH-1 (4.0')	Total/NA	Solid	8015NM Prep	
880-46630-5	BH-1 (6.0')	Total/NA	Solid	8015NM Prep	
880-46630-6	BH-1 (8.0')	Total/NA	Solid	8015NM Prep	
880-46630-13	BH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-46630-14	BH-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-46630-15	BH-2 (3.0')	Total/NA	Solid	8015NM Prep	
MB 880-87034/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87034/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87034/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6962-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6962-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 87035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-16	BH-2 (4.0')	Total/NA	Solid	8015NM Prep	
880-46630-17	BH-2 (6.0')	Total/NA	Solid	8015NM Prep	
880-46630-18	BH-2 (8.0')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 87035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-25	BH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-46630-26	BH-3 (2.0')	Total/NA	Solid	8015NM Prep	
880-46630-27	BH-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-46630-28	BH-3 (4.0')	Total/NA	Solid	8015NM Prep	
880-46630-29	BH-3 (6.0')	Total/NA	Solid	8015NM Prep	
880-46630-30	BH-3 (8.0')	Total/NA	Solid	8015NM Prep	
MB 880-87035/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87035/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87035/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46630-16 MS	BH-2 (4.0')	Total/NA	Solid	8015NM Prep	
880-46630-16 MSD	BH-2 (4.0')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Total/NA	Solid	8015 NM	
880-46630-2	BH-1 (2.0')	Total/NA	Solid	8015 NM	
880-46630-3	BH-1 (3.0')	Total/NA	Solid	8015 NM	
880-46630-4	BH-1 (4.0')	Total/NA	Solid	8015 NM	
880-46630-5	BH-1 (6.0')	Total/NA	Solid	8015 NM	
880-46630-6	BH-1 (8.0')	Total/NA	Solid	8015 NM	
880-46630-7	BH-1 (10')	Total/NA	Solid	8015 NM	
880-46630-13	BH-2 (0-1')	Total/NA	Solid	8015 NM	
880-46630-14	BH-2 (2.0')	Total/NA	Solid	8015 NM	
880-46630-15	BH-2 (3.0')	Total/NA	Solid	8015 NM	
880-46630-16	BH-2 (4.0')	Total/NA	Solid	8015 NM	
880-46630-17	BH-2 (6.0')	Total/NA	Solid	8015 NM	
880-46630-18	BH-2 (8.0')	Total/NA	Solid	8015 NM	
880-46630-19	BH-2 (10')	Total/NA	Solid	8015 NM	
880-46630-25	BH-3 (0-1')	Total/NA	Solid	8015 NM	
880-46630-26	BH-3 (2.0')	Total/NA	Solid	8015 NM	
880-46630-27	BH-3 (3.0')	Total/NA	Solid	8015 NM	
880-46630-28	BH-3 (4.0')	Total/NA	Solid	8015 NM	
880-46630-29	BH-3 (6.0')	Total/NA	Solid	8015 NM	
880-46630-30	BH-3 (8.0')	Total/NA	Solid	8015 NM	
880-46630-31	BH-3 (10')	Total/NA	Solid	8015 NM	

Prep Batch: 87592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Total/NA	Solid	8015NM Prep	
880-46630-19	BH-2 (10')	Total/NA	Solid	8015NM Prep	
MB 880-87592/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87592/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87592/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46870-A-24-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46870-A-24-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-31	BH-3 (10')	Total/NA	Solid	8015B NM	87612
MB 880-87612/1-A	Method Blank	Total/NA	Solid	8015B NM	87612
LCS 880-87612/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87612

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 87595 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-87612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87612
885-9143-A-28-B MS	Matrix Spike	Total/NA	Solid	8015B NM	87612
885-9143-A-28-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87612

Prep Batch: 87612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-31	BH-3 (10')	Total/NA	Solid	8015NM Prep	
MB 880-87612/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87612/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
885-9143-A-28-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
885-9143-A-28-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Total/NA	Solid	8015B NM	87592
880-46630-19	BH-2 (10')	Total/NA	Solid	8015B NM	87592
MB 880-87592/1-A	Method Blank	Total/NA	Solid	8015B NM	87592
LCS 880-87592/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87592
LCSD 880-87592/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87592
880-46870-A-24-B MS	Matrix Spike	Total/NA	Solid	8015B NM	87592
880-46870-A-24-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87592

HPLC/IC

Leach Batch: 87052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Soluble	Solid	DI Leach	
880-46630-2	BH-1 (2.0')	Soluble	Solid	DI Leach	
880-46630-3	BH-1 (3.0')	Soluble	Solid	DI Leach	
MB 880-87052/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87052/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87052/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-14436-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
820-14436-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
820-14436-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
820-14436-A-11-G MS	Matrix Spike	Soluble	Solid	DI Leach	

Leach Batch: 87054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-4	BH-1 (4.0')	Soluble	Solid	DI Leach	
880-46630-5	BH-1 (6.0')	Soluble	Solid	DI Leach	
880-46630-6	BH-1 (8.0')	Soluble	Solid	DI Leach	
880-46630-13	BH-2 (0-1')	Soluble	Solid	DI Leach	
880-46630-14	BH-2 (2.0')	Soluble	Solid	DI Leach	
880-46630-15	BH-2 (3.0')	Soluble	Solid	DI Leach	
880-46630-16	BH-2 (4.0')	Soluble	Solid	DI Leach	
880-46630-17	BH-2 (6.0')	Soluble	Solid	DI Leach	
880-46630-18	BH-2 (8.0')	Soluble	Solid	DI Leach	
880-46630-25	BH-3 (0-1')	Soluble	Solid	DI Leach	
880-46630-26	BH-3 (2.0')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 87054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-27	BH-3 (3.0')	Soluble	Solid	DI Leach	
880-46630-28	BH-3 (4.0')	Soluble	Solid	DI Leach	
880-46630-29	BH-3 (6.0')	Soluble	Solid	DI Leach	
880-46630-30	BH-3 (8.0')	Soluble	Solid	DI Leach	
MB 880-87054/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87054/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87054/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46630-4 MS	BH-1 (4.0')	Soluble	Solid	DI Leach	
880-46630-4 MSD	BH-1 (4.0')	Soluble	Solid	DI Leach	
880-46630-26 MS	BH-3 (2.0')	Soluble	Solid	DI Leach	
880-46630-26 MSD	BH-3 (2.0')	Soluble	Solid	DI Leach	

Analysis Batch: 87115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-1	BH-1 (0-1')	Soluble	Solid	300.0	87052
880-46630-2	BH-1 (2.0')	Soluble	Solid	300.0	87052
880-46630-3	BH-1 (3.0')	Soluble	Solid	300.0	87052
MB 880-87052/1-A	Method Blank	Soluble	Solid	300.0	87052
LCS 880-87052/2-A	Lab Control Sample	Soluble	Solid	300.0	87052
LCSD 880-87052/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87052
820-14436-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	87052
820-14436-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87052
820-14436-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87052
820-14436-A-11-G MS	Matrix Spike	Soluble	Solid	300.0	87052

Analysis Batch: 87128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-4	BH-1 (4.0')	Soluble	Solid	300.0	87054
880-46630-5	BH-1 (6.0')	Soluble	Solid	300.0	87054
880-46630-6	BH-1 (8.0')	Soluble	Solid	300.0	87054
880-46630-13	BH-2 (0-1')	Soluble	Solid	300.0	87054
880-46630-14	BH-2 (2.0')	Soluble	Solid	300.0	87054
880-46630-15	BH-2 (3.0')	Soluble	Solid	300.0	87054
880-46630-16	BH-2 (4.0')	Soluble	Solid	300.0	87054
880-46630-17	BH-2 (6.0')	Soluble	Solid	300.0	87054
880-46630-18	BH-2 (8.0')	Soluble	Solid	300.0	87054
880-46630-25	BH-3 (0-1')	Soluble	Solid	300.0	87054
880-46630-26	BH-3 (2.0')	Soluble	Solid	300.0	87054
880-46630-27	BH-3 (3.0')	Soluble	Solid	300.0	87054
880-46630-28	BH-3 (4.0')	Soluble	Solid	300.0	87054
880-46630-29	BH-3 (6.0')	Soluble	Solid	300.0	87054
880-46630-30	BH-3 (8.0')	Soluble	Solid	300.0	87054
MB 880-87054/1-A	Method Blank	Soluble	Solid	300.0	87054
LCS 880-87054/2-A	Lab Control Sample	Soluble	Solid	300.0	87054
LCSD 880-87054/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87054
880-46630-4 MS	BH-1 (4.0')	Soluble	Solid	300.0	87054
880-46630-4 MSD	BH-1 (4.0')	Soluble	Solid	300.0	87054
880-46630-26 MS	BH-3 (2.0')	Soluble	Solid	300.0	87054
880-46630-26 MSD	BH-3 (2.0')	Soluble	Solid	300.0	87054

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

HPLC/IC

Leach Batch: 87786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Soluble	Solid	DI Leach	
880-46630-19	BH-2 (10')	Soluble	Solid	DI Leach	
880-46630-31	BH-3 (10')	Soluble	Solid	DI Leach	
MB 880-87786/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87786/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87786/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46630-7 MS	BH-1 (10')	Soluble	Solid	DI Leach	
880-46630-7 MSD	BH-1 (10')	Soluble	Solid	DI Leach	

Analysis Batch: 87827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46630-7	BH-1 (10')	Soluble	Solid	300.0	87786
880-46630-19	BH-2 (10')	Soluble	Solid	300.0	87786
880-46630-31	BH-3 (10')	Soluble	Solid	300.0	87786
MB 880-87786/1-A	Method Blank	Soluble	Solid	300.0	87786
LCS 880-87786/2-A	Lab Control Sample	Soluble	Solid	300.0	87786
LCSD 880-87786/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87786
880-46630-7 MS	BH-1 (10')	Soluble	Solid	300.0	87786
880-46630-7 MSD	BH-1 (10')	Soluble	Solid	300.0	87786

Lab Chronicle

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (0-1')**Lab Sample ID: 880-46630-1****Date Collected: 07/29/24 00:00****Matrix: Solid****Date Received: 07/30/24 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 17:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 23:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 23:40	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	87052	07/30/24 11:37	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87115	08/01/24 02:06	SMC	EET MID

Client Sample ID: BH-1 (2.0')**Lab Sample ID: 880-46630-2****Date Collected: 07/29/24 00:00****Matrix: Solid****Date Received: 07/30/24 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 18:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 23:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/30/24 23:55	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87052	07/30/24 11:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87115	08/01/24 02:12	SMC	EET MID

Client Sample ID: BH-1 (3.0')**Lab Sample ID: 880-46630-3****Date Collected: 07/29/24 00:00****Matrix: Solid****Date Received: 07/30/24 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 18:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 00:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 00:26	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87052	07/30/24 11:37	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87115	08/01/24 02:17	SMC	EET MID

Client Sample ID: BH-1 (4.0')**Lab Sample ID: 880-46630-4****Date Collected: 07/29/24 00:00****Matrix: Solid****Date Received: 07/30/24 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 18:50	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (4.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87122	07/31/24 00:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 00:41	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87128	08/02/24 00:00	SMC	EET MID

Client Sample ID: BH-1 (6.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 00:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 00:56	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87128	08/02/24 00:24	SMC	EET MID

Client Sample ID: BH-1 (8.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 19:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 01:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 01:12	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 00:32	SMC	EET MID

Client Sample ID: BH-1 (10')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87616	08/06/24 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87664	08/06/24 20:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	08/06/24 20:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	08/08/24 06:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87592	08/06/24 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87745	08/08/24 06:38	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (10')**Date Collected: 07/29/24 00:00****Date Received: 07/30/24 08:30****Lab Sample ID: 880-46630-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	87786	08/07/24 16:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87827	08/08/24 17:59	CH	EET MID

Client Sample ID: BH-2 (0-1')**Date Collected: 07/29/24 00:00****Date Received: 07/30/24 08:30****Lab Sample ID: 880-46630-13****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 19:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 01:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 01:28	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87128	08/02/24 00:40	SMC	EET MID

Client Sample ID: BH-2 (2.0')**Date Collected: 07/29/24 00:00****Date Received: 07/30/24 08:30****Lab Sample ID: 880-46630-14****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 20:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 20:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 01:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 01:43	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87128	08/02/24 00:48	SMC	EET MID

Client Sample ID: BH-2 (3.0')**Date Collected: 07/29/24 00:00****Date Received: 07/30/24 08:30****Lab Sample ID: 880-46630-15****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 20:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 20:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/31/24 01:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87034	07/30/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87030	07/31/24 01:58	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 01:12	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-2 (4.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 20:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 20:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 21:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 21:04	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 01:19	SMC	EET MID

Client Sample ID: BH-2 (6.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 22:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 22:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 21:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 21:51	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 12:46	SMC	EET MID

Client Sample ID: BH-2 (8.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 22:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 22:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 22:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 22:07	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 12:54	SMC	EET MID

Client Sample ID: BH-2 (10')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87616	08/06/24 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87664	08/06/24 21:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	08/06/24 21:03	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-2 (10')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87122	08/08/24 06:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87592	08/06/24 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87745	08/08/24 06:55	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87786	08/07/24 16:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87827	08/08/24 18:15	CH	EET MID

Client Sample ID: BH-3 (0-1')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 23:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 23:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 22:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 22:22	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87128	08/02/24 01:43	SMC	EET MID

Client Sample ID: BH-3 (2.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 23:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 23:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 22:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 22:38	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87128	08/02/24 01:51	SMC	EET MID

Client Sample ID: BH-3 (3.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/30/24 23:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/30/24 23:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 22:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 22:53	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-3 (3.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 02:15	SMC	EET MID

Client Sample ID: BH-3 (4.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/31/24 00:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/31/24 00:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 23:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 23:09	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 02:23	SMC	EET MID

Client Sample ID: BH-3 (6.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/31/24 00:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/31/24 00:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 23:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 23:24	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 02:47	SMC	EET MID

Client Sample ID: BH-3 (8.0')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87045	07/30/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87075	07/31/24 00:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	07/31/24 00:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	07/30/24 23:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87035	07/30/24 10:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87032	07/30/24 23:40	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87054	07/30/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87128	08/02/24 02:55	SMC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Client Sample ID: BH-3 (10')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 08:30

Lab Sample ID: 880-46630-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87616	08/06/24 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87664	08/06/24 21:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87163	08/06/24 21:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			87122	08/07/24 01:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87612	08/06/24 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87595	08/07/24 01:50	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87786	08/07/24 16:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87827	08/08/24 18:20	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

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

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

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

Sample Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-46630-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46630-1	BH-1 (0-1')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-2	BH-1 (2.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-3	BH-1 (3.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-4	BH-1 (4.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-5	BH-1 (6.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-6	BH-1 (8.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-7	BH-1 (10')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-13	BH-2 (0-1')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-14	BH-2 (2.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-15	BH-2 (3.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-16	BH-2 (4.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-17	BH-2 (6.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-18	BH-2 (8.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-19	BH-2 (10')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-25	BH-3 (0-1')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-26	BH-3 (2.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-27	BH-3 (3.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-28	BH-3 (4.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-29	BH-3 (6.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-30	BH-3 (8.0')	Solid	07/29/24 00:00	07/30/24 08:30
880-46630-31	BH-3 (10')	Solid	07/29/24 00:00	07/30/24 08:30

Chain of Custody

Wo



880-46630 Chain of Custody

Page 1 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

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

Project Name:	Markham #001	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2408	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush															None: NO	DI Water: H ₂ O
Project Location:	Eddy Co. NM	Due Date:	Normal														Cool: Cool	MeOH: Me
Sampler's Name:	IR & CMM	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:															NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:															Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:															Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:															NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grav/ Comp	# of Cont	TPH										Sample Comments
BH-1 (0-1')	7/29/2024		X		G	1	X	X	X								
BH-1 (2.0')	7/29/2024		X		G	1	X	X	X								
BH-1 (3.0')	7/29/2024		X		G	1	X	X	X								
BH-1 (4.0')	7/29/2024		X		G	1	X	X	X								
BH-1 (6.0')	7/29/2024		X		G	1	X	X	X								
BH-1 (8.0')	7/29/2024		X		G	1	X	X	X								
BH-1 (10')	7/29/2024		X		G	1										X	
BH-1 (12')	7/29/2024		X		G	1										X	
BH-1 (14')	7/29/2024		X		G	1										X	
BH-1 (16')	7/29/2024		X		G	1										X	

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		7/29/24 0630			

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

Chain of Custody

Work Order No: 46630

Page 2 of 4



Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

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

Project Name:	Markham #001	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	2408	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush														None: NO	DI Water: H ₂ O		
Project Location:	Eddy Co. NM	Due Date:	Normal													Cool: Cool	MeOH: Me		
Sampler's Name:	IR & CMM	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN		
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No													HOLD	
Received Intact:	Yes No	Thermometer ID:																H ₃ PO ₄ : HP	
Cooler Custody Seals:	Yes No N/A	Correction Factor:																NaHSO ₄ : NABIS	
Sample Custody Seals:	Yes No N/A	Temperature Reading:																Na ₂ S ₂ O ₃ : NaSO ₃	
Total Containers:		Corrected Temperature:																Zn Acetate+NaOH: Zn	
																		NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH												Sample Comments
BH-1 (18')	7/29/2024		X		G	1												X	
BH-1 (20')	7/29/2024		X		G	1												X	
BH-2 (0-1')	7/29/2024		X		G	1	X	X	X	X									
BH-2 (2.0')	7/29/2024		X		G	1	X	X	X	X									
BH-2 (3.0')	7/29/2024		X		G	1	X	X	X	X									
BH-2 (4.0')	7/29/2024		X		G	1	X	X	X	X									
BH-2 (6.0')	7/29/2024		X		G	1	X	X	X	X									
BH-2 (8.0')	7/29/2024		X		G	1	X	X	X	X									
BH-2 (10')	7/29/2024		X		G	1												X	
BH-2 (12')	7/29/2024		X		G	1												X	

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		7/30/24 0830			

Chain of Custody

Work Order No: 46636

Page 3 of 4

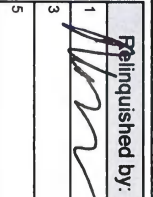

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

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

Project Name:	Markham #001	Turn Around	Pres. Code	ANALYSIS REQUEST										Preservative Codes			
Project Number:	2408	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush														None: NO	DI Water: H ₂ O
Project Location:	Eddy Co., NM	Due Date:	Normal													Cool: Cool	MeOH: Me
Sampler's Name:	IR & CMM	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No										H ₃ PO ₄ : HP	
Received Intact:	Yes	No	Thermometer ID:													NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes	No	Correction Factor:													Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes	No	Temperature Reading:													Zn Acetate+NaOH: Zn	
Total Containers:			Corrected Temperature:													NaOH+Ascorbic Acid: SAPC	

Sample Identification		Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH										Sample Comments		
BH-2 (14')		7/29/2024		X		G	1												X	
BH-2 (16')		7/29/2024		X		G	1												X	
BH-2 (18')		7/29/2024		X		G	1												X	
BH-2 (20')		7/29/2024		X		G	1												X	
BH-3 (0-1')		7/29/2024		X		G	1	X	X	X										
BH-3 (2.0')		7/29/2024		X		G	1	X	X	X										
BH-3 (3.0')		7/29/2024		X		G	1	X	X	X										
BH-3 (4.0')		7/29/2024		X		G	1	X	X	X										
BH-3 (6.0')		7/29/2024		X		G	1	X	X	X										
BH-3 (8.0')		7/29/2024		X		G	1	X	X	X										

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		7/30/24 0830			

Chain of Custody

Work Order No:

4630

Page 4 of 4

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-46630-1

SDG Number: Eddy Co, NM

Login Number: 46630

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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



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

October 02, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MARKHAM #001

Enclosed are the results of analyses for samples received by the laboratory on 10/01/24 15:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 1 (10.0') (H245963-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/02/2024	ND	416	104	400	0.00	

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	10/01/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 2 (10.0') (H245963-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/02/2024	ND	416	104	400	0.00		

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	10/01/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 3 (10.0') (H245963-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280		
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733		
Total BTEx	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/01/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 4 (10.0') (H245963-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280		
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 5 (10.0') (H245963-05)

BTEx 8021B			mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280		
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 6 (10.0') (H245963-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.08	104	2.00	0.280		
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733		
Total BTEx	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 7 (12.0') (H245963-07)

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	10/01/2024	ND	2.08	104	2.00	0.280		
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 8 (12.0') (H245963-08)

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	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/02/2024	ND	432	108	400	7.14	

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 1 (10.0') (H245963-09)

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	10/01/2024	ND	2.08	104	2.00	0.280		
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 2 (10.0') (H245963-10)

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	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/02/2024	ND	432	108	400	7.14	

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 3 (10.0') (H245963-11)

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	10/01/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/01/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/02/2024	ND	432	108	400	7.14	

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 4 (10.0') (H245963-12)

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	10/02/2024	ND	2.08	104	2.00	0.280		
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471		
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112		
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733		
Total BTEX	<0.300	0.300	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 5 (10.0') (H245963-13)

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	10/02/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733	
Total BTEX	<0.300	0.300	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14	

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 6 (10.0') (H245963-14)

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	10/02/2024	ND	2.08	104	2.00	0.280		
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471		
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112		
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733		
Total BTEX	<0.300	0.300	10/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 7 (10.0') (H245963-15)

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	10/02/2024	ND	2.08	104	2.00	0.280		
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471		
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112		
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733		
Total BTEx	<0.300	0.300	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 8 (10.0') (H245963-16)

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	10/02/2024	ND	2.08	104	2.00	0.280		
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471		
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112		
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733		
Total BTEx	<0.300	0.300	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 9 (12.0') (H245963-17)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	0.280	
Toluene*	<0.050	0.050	10/02/2024	ND	2.03	102	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.10	105	2.00	0.112	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.34	106	6.00	0.733	
Total BTX	<0.300	0.300	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14	

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 10 (12.0') (H245963-18)

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	10/01/2024	ND	2.09	105	2.00	2.15		
Toluene*	<0.050	0.050	10/01/2024	ND	2.16	108	2.00	1.16		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.21	110	2.00	0.837		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.66	111	6.00	0.394		
Total BTEX	<0.300	0.300	10/01/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 11 (12.0') (H245963-19)

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	10/01/2024	ND	2.09	105	2.00	2.15		
Toluene*	<0.050	0.050	10/01/2024	ND	2.16	108	2.00	1.16		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.21	110	2.00	0.837		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.66	111	6.00	0.394		
Total BTEX	<0.300	0.300	10/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 12 (12.0') (H245963-20)

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	10/01/2024	ND	2.09	105	2.00	2.15		
Toluene*	<0.050	0.050	10/01/2024	ND	2.16	108	2.00	1.16		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.21	110	2.00	0.837		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.66	111	6.00	0.394		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	226	113	200	8.97	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	208	104	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: MARKHAM #001
 Project Number: 2408
 Project Location: EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 13 (10.0-12.0') (H245963-21)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.09	105	2.00	2.15		
Toluene*	<0.050	0.050	10/01/2024	ND	2.16	108	2.00	1.16		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.21	110	2.00	0.837		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.66	111	6.00	0.394		
Total BTX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/02/2024	ND	432	108	400	7.14		

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	10/02/2024	ND	201	100	200	5.15	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	195	97.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 112459403

Page 1 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

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

Project Name:	Markham #001	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2408	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush		None: NO	DI Water: H ₂ O													
Project Location:	Eddy Co. NM	Due Date:	24 Hour		Cool: Cool	MeOH: Me													
Sampler's Name:	Cade	TAT starts the day received by the lab, if received by 4:30pm			HCL: HC	HNO ₃ : HN													
PO #:		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	H ₂ SO ₄ : H ₂	NaOH: Na												
SAMPLE RECEIPT		Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	60.00C	H ₃ PO ₄ : HP													
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	4.00C	Temperature Reading:	4.00C	NaHSO ₄ : NABIS													
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Corrected Temperature:	4.30C	Zn Acetate+NaOH: Zn															
Total Containers:		BTX 8021B						NaOH+Ascorbic Acid: SACP											
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	TPH 8015M (GRO + DRO + MRO)										Sample Comments	
1	CS-1 (10.0')	10/1/2024		X		Comp	1	X	X	X									
2	CS-2 (10.0')	10/1/2024		X		Comp	1	X	X	X									
3	CS-3 (10.0')	10/1/2024		X		Comp	1	X	X	X									
4	CS-4 (10.0')	10/1/2024		X		Comp	1	X	X	X									
5	CS-5 (10.0')	10/1/2024		X		Comp	1	X	X	X									
6	CS-6 (10.0')	10/1/2024		X		Comp	1	X	X	X									
7	CS-7 (12.0')	10/1/2024		X		Comp	1	X	X	X									
8	CS-8 (12.0')	10/1/2024		X		Comp	1	X	X	X									
9	SW-1 (10.0')	10/1/2024		X		Comp	1	X	X	X									
10	SW-2 (10.0')	10/1/2024		X		Comp	1	X	X	X									

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cole Mead	ADAVE	10/14/1532	2		
3			4		
5			6		

Chain of Custody

Work Order No: 11459103

Page 2 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

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

Project Name:	Markham #001	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Fees, Code	ANALYSIS REQUEST										Preservative Codes		
Project Number:	2408	Due Date:	24 Hour												None: NO	DI Water: H ₂ O	
Project Location:	Eddy Co. NM	TAT starts the day received by the lab, if received by 4:30pm													Cool: Cool	MeOH: Me	
Sampler's Name:	Cade														HCL: HC	HNO ₃ : HN	
PO #:															H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT	Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID: #142	Parameters											H ₃ PO ₄ : HP		
Received Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor: 0.00	Temperature Reading: 4.0	Corrected Temperature: 4.3	BTEX 8021B											NaHSO ₄ : NABIS		
Cooler Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				TPH 8015M (GRO + DRO + MRO)											Na ₂ S ₂ O ₅ : NaSO ₃		
Sample Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Chloride 4500											Zn Acetate+NaOH: Zn		
Total Containers:															NaOH+Ascorbic Acid: SACP		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments
11 SW-3 (10.0')	10/1/2024		X		Comp	1	X	X	X								
12 SW-4 (10.0')	10/1/2024		X		Comp	1	X	X	X								
13 SW-5 (10.0')	10/1/2024		X		Comp	1	X	X	X								
14 SW-6 (10.0')	10/1/2024		X		Comp	1	X	X	X								
15 SW-7 (10.0')	10/1/2024		X		Comp	1	X	X	X								
16 SW-8 (10.0')	10/1/2024		X		Comp	1	X	X	X								
17 SW-9 (12.0')	10/1/2024		X		Comp	1	X	X	X								
18 SW-10 (12.0')	10/1/2024		X		Comp	1	X	X	X								
19 SW-11 (12.0')	10/1/2024		X		Comp	1	X	X	X								
20 SW-12 (12.0')	10/1/2024		X		Comp	1	X	X	X								

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cade Mocking	APARRA	10-1-24/1532	2		
3			4		
5			6		

Chain of Custody

Work Order No: 1245963

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Released to Imaging: 11/14/2024 7:34:13 AM



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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/11/2024 2:33:20 PM

JOB DESCRIPTION

Markham #001
Eddy Co, NM

JOB NUMBER

880-49611-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
10/11/2024 2:33:20 PM

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

Client: Carmona Resources
Project/Site: Markham #001

Laboratory Job ID: 880-49611-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Markham #001

Job ID: 880-49611-1

Job ID: 880-49611-1

Eurofins Midland

Job Narrative 880-49611-1

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

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

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

Receipt

The sample was received on 10/10/2024 8:21 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.7°C.

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-92936 and analytical batch 880-92939 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-92936 and analytical batch 880-92939 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-92947/2-A) and (LCSD 880-92947/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-93006 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-93006/21).

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

HPLC/IC

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

Client Sample ID: Lealand Backfill

Lab Sample ID: 880-49611-1

Date Collected: 10/09/24 00:00

Matrix: Solid

Date Received: 10/10/24 08:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/10/24 09:20	10/10/24 18:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/10/24 09:20	10/10/24 18:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/10/24 09:20	10/10/24 18:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/10/24 09:20	10/10/24 18:03	1
o-Xylene	<0.00198	U *	0.00198		mg/Kg		10/10/24 09:20	10/10/24 18:03	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/10/24 09:20	10/10/24 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/10/24 09:20	10/10/24 18:03	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/10/24 09:20	10/10/24 18:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/10/24 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/10/24 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/10/24 09:17	10/10/24 19:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/10/24 09:17	10/10/24 19:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/10/24 09:17	10/10/24 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	10/10/24 09:17	10/10/24 19:29	1
o-Terphenyl	107		70 - 130	10/10/24 09:17	10/10/24 19:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.86		5.05		mg/Kg			10/10/24 12:25	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-49596-A-1-B MS	Matrix Spike	109	102
880-49596-A-1-C MSD	Matrix Spike Duplicate	109	98
880-49611-1	Lealand Backfill	115	104
LCS 880-92936/1-A	Lab Control Sample	103	97
LCSD 880-92936/2-A	Lab Control Sample Dup	110	98
MB 880-92936/5-A	Method Blank	155 S1+	112
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-49609-A-1-E MS	Matrix Spike	107	106
880-49609-A-1-F MSD	Matrix Spike Duplicate	106	107
880-49611-1	Lealand Backfill	119	107
LCS 880-92947/2-A	Lab Control Sample	102	158 S1+
LCSD 880-92947/3-A	Lab Control Sample Dup	102	155 S1+
MB 880-92947/1-A	Method Blank	112	105
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-92936/5-A

Matrix: Solid

Analysis Batch: 92939

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 92936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/24 08:08	10/10/24 11:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/10/24 08:08	10/10/24 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	10/10/24 08:08	10/10/24 11:37	1
1,4-Difluorobenzene (Surr)	112		70 - 130	10/10/24 08:08	10/10/24 11:37	1

Lab Sample ID: LCS 880-92936/1-A

Matrix: Solid

Analysis Batch: 92939

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 92936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.09978		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1069		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2473		mg/Kg		124	70 - 130
o-Xylene	0.100	0.1247		mg/Kg		125	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-92936/2-A

Matrix: Solid

Analysis Batch: 92939

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 92936

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1100		mg/Kg		110	70 - 130	4	35
Toluene	0.100	0.1035		mg/Kg		104	70 - 130	4	35
Ethylbenzene	0.100	0.1176		mg/Kg		118	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2574		mg/Kg		129	70 - 130	4	35
o-Xylene	0.100	0.1317	*+	mg/Kg		132	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-49596-A-1-B MS

Matrix: Solid

Analysis Batch: 92939

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 92936

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.1018		mg/Kg		102	70 - 130
Toluene	<0.00201	U	0.100	0.09384		mg/Kg		94	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-49596-A-1-B MS
Matrix: Solid
Analysis Batch: 92939

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 92936

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.1111		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2156		mg/Kg		108	70 - 130
o-Xylene	<0.00201	U *	0.100	0.1209		mg/Kg		121	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	109		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 880-49596-A-1-C MSD
Matrix: Solid
Analysis Batch: 92939

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 92936

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09799		mg/Kg		98	70 - 130	4	35
Toluene	<0.00201	U	0.100	0.09545		mg/Kg		95	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.100	0.1100		mg/Kg		110	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2366		mg/Kg		118	70 - 130	9	35
o-Xylene	<0.00201	U *	0.100	0.1161		mg/Kg		116	70 - 130	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	109		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

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

Lab Sample ID: MB 880-92947/1-A
Matrix: Solid
Analysis Batch: 93006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/10/24 09:17	10/10/24 11:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/10/24 09:17	10/10/24 11:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/10/24 09:17	10/10/24 11:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	112		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: LCS 880-92947/2-A
Matrix: Solid
Analysis Batch: 93006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1004		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1197		mg/Kg		120	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-92947/2-A

Matrix: Solid

Analysis Batch: 93006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 92947

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	158	S1+	70 - 130

Lab Sample ID: LCSD 880-92947/3-A

Matrix: Solid

Analysis Batch: 93006

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 92947

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1014		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1205		mg/Kg		120	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	155	S1+	70 - 130

Lab Sample ID: 880-49609-A-1-E MS

Matrix: Solid

Analysis Batch: 93006

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 92947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	886.9		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	903.4		mg/Kg		91	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 880-49609-A-1-F MSD

Matrix: Solid

Analysis Batch: 93006

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 92947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	877.6		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	911.0		mg/Kg		91	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	107		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92946/1-A

Matrix: Solid

Analysis Batch: 92953

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/10/24 11:45	1

Lab Sample ID: LCS 880-92946/2-A

Matrix: Solid

Analysis Batch: 92953

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-92946/3-A

Matrix: Solid

Analysis Batch: 92953

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.7		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 880-49609-A-1-B MS

Matrix: Solid

Analysis Batch: 92953

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8.02		251	273.3		mg/Kg		106	90 - 110

Lab Sample ID: 880-49609-A-1-C MSD

Matrix: Solid

Analysis Batch: 92953

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.02		251	274.1		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 92936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	5035	
MB 880-92936/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92936/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92936/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49596-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-49596-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 92939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	8021B	92936
MB 880-92936/5-A	Method Blank	Total/NA	Solid	8021B	92936
LCS 880-92936/1-A	Lab Control Sample	Total/NA	Solid	8021B	92936
LCSD 880-92936/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92936
880-49596-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	92936
880-49596-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	92936

Analysis Batch: 93043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 92947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	8015NM Prep	
MB 880-92947/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92947/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49609-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-49609-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 93006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	8015B NM	92947
MB 880-92947/1-A	Method Blank	Total/NA	Solid	8015B NM	92947
LCS 880-92947/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92947
LCSD 880-92947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92947
880-49609-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	92947
880-49609-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	92947

Analysis Batch: 93113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 92946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Soluble	Solid	DI Leach	
MB 880-92946/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92946/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92946/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 92946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49609-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-49609-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 92953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49611-1	Lealand Backfill	Soluble	Solid	300.0	92946
MB 880-92946/1-A	Method Blank	Soluble	Solid	300.0	92946
LCS 880-92946/2-A	Lab Control Sample	Soluble	Solid	300.0	92946
LCSD 880-92946/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92946
880-49609-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	92946
880-49609-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	92946

Lab Chronicle

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

Client Sample ID: Lealand Backfill
Date Collected: 10/09/24 00:00
Date Received: 10/10/24 08:21

Lab Sample ID: 880-49611-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	92936	10/10/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92939	10/10/24 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93043	10/10/24 18:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			93113	10/10/24 19:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92947	10/10/24 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93006	10/10/24 19:29	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92946	10/10/24 09:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92953	10/10/24 12:25	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Markham #001

Job ID: 880-49611-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-49611-1	Lealand Backfill	Solid	10/09/24 00:00	10/10/24 08:21

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

Chain of Custody



880-49611 Chain of Custody

Page 1 of 1

Project Manager: Ashton Thielke		Bill to: (if different)		Carmona Resources	
Company Name: Carmona Resources		Company Name:			
Address: 310 West Wall Ste. 500		Address:			
City, State ZIP: Midland, TX 79701		City, State ZIP:			
Phone: 432-813-8988		Email: ThielkeA@Carmonaresources.com			

Project Name: Markham #001		Turn Around		Pres. Code	
Project Number: 2408		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location: Eddy Co. NM		Due Date: 24 Hour			
Sampler's Name: GPJ		TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

Project Name: Markham #001		Turn Around		Pres. Code	
Project Number: 2408		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location: Eddy Co. NM		Due Date: 24 Hour			
Sampler's Name: GPJ		TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

Project Name: Markham #001		Turn Around		Pres. Code	
Project Number: 2408		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location: Eddy Co. NM		Due Date: 24 Hour			
Sampler's Name: GPJ		TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Project Name: Markham #001		Turn Around		Pres. Code	
Project Number: 2408		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location: Eddy Co. NM		Due Date: 24 Hour			
Sampler's Name: GPJ		TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

Revised Date 05/12/2020 Rev. 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-49611-1
SDG Number: Eddy Co, NM

Login Number: 49611
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 403172

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403172
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nCLB0523732298
Incident Name	NCLB0523732298 MARKHAM #001 @ 30-015-26544
Incident Type	Produced Water Release
Incident Status	Re-vegetation Report Received
Incident Well	[30-015-26544] MARKHAM #001

Location of Release Source

Please answer all the questions in this group.

Site Name	MARKHAM #001
Date Release Discovered	06/09/2005
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Cause: Human Error Production Tank Crude Oil Released: 3 BBL Recovered: 2 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Produced Water Released: 70 BBL Recovered: 68 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 403172

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403172
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/14/2024
--	---

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

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

QUESTIONS, Page 3

Action 403172

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403172
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 100 and 200 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	727
GRO+DRO (EPA SW-846 Method 8015M)	727
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	09/28/2024
On what date will (or did) the final sampling or liner inspection occur	09/28/2024
On what date will (or was) the remediation complete(d)	10/10/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1460
What is the estimated volume (in cubic yards) that will be remediated	688
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Oil Conservation Division
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Action 403172

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403172
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [FEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/14/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 403172

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403172
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

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

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Action 403172

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403172
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	387639
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/28/2024
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	1500

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1460
What was the total volume (cubic yards) remediated	688
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	"Area was excavated and remediated based off of initial site assessment results. Once composite confirmation sidewall and floor samples were received, the area was backfilled with caliche and crushed gravel per Landowner specs, see closure report text and communications in Appendix C of the closure report."

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/14/2024
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QUESTIONS, Page 7

Action 403172

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403172
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	0
What was the total volume of replacement material (in cubic yards) for this site	0
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	10/10/2024
Summarize any additional reclamation activities not included by answers (above)	Please see closure report. A variance to 19.15.29.13 NMAC is requested due to the landowner using the entire property as an industrial business and does not want any recalamtion or reseedling.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/14/2024

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Action 403172

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403172
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	Yes
What was the total revegetation surface area (in square feet) for this site	0
<i>Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.</i>	
On what date did the reseeded commence	10/10/2024
On what date was the vegetative cover inspected	10/10/2024
What was the life form ratio compared to pre-disturbance levels	50
What was the total percent plant cover compared to pre-disturbance levels	70
Summarize any additional revegetation activities not included by answers (above)	Please see closure report. A variance to 19.15.29.13 NMAC is requested due to the landowner using the entire property as an industrial business and does not want any reclamation or reseeded. The above numbers are reflective of the form needing a number equal to or greater than the numbers entered.
<i>The responsible party must attach information demonstrating they have complied with all applicable re-vegetation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any life form ratio and percent plant cover sampling diagrams or other relevant field notes, photographs of re-vegetated areas, and a narrative of the re-vegetation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/14/2024
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 403172

CONDITIONS

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	Action Number: 403172
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved. Reclamation and revegetation variance approved.	11/14/2024