CARMONA RESOURCES

SITE INFORMATION

Closure Report
Tusk Federal 004H (03.30.2023)
Incident #: NAPP2309434596
Lea County, New Mexico
Unit O Sec 25 T19S R34E
32.62481°, -103.51141°

Crude Oil Release
Point of Release: Flare burp
Release Date: 03.30.2023
Volume Released: 4 barrels of Crude Oil
Volume Recovered: 0 barrels of Crude Oil

CARMONA RESOURCES

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

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

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

CARMONA RESOURCES

TABLE OF CONTENTS

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

CARMONA RESOURCES

June 21, 2023

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

Re: Closure Report
Tusk Federal 004H (03.30.2023)
Concho Operating, LLC
Site Location: Unit O, S25, T19S, R34E
(Lat 32.62481º, Long -103.51141º)
Lea County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Tusk Federal 004H (03.30.23). The site is located at 32.62481°, -103.51141° within Unit O, S25, T19S, R34E, and in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on March 30, 2023, caused by a flare burp. It released approximately four (4) barrels of crude oil, and zero (0) barrels of crude oil were recovered. The impacted area occurred on the pad and the pasture, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, one known water source is within a 0.50-mile radius of the location. The nearest identified well is approximately 0.05 miles West of the site in S25, T19S, R34E and was drilled in 1985. The well has a reported depth to groundwater of 28' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

On May 23, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. To assess the vertical and horizontal extent, four (4) sample points (S-1 through S-4) and six (6) horizontal points (H-1 through H-6) were advanced to depths ranging from the surface to 4.0’ bgs inside the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and

310 West Wall Street, Suite 500
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432.813.1992

CARMONA RESOURCES

xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

See Table 1 for the analytical results.

5.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

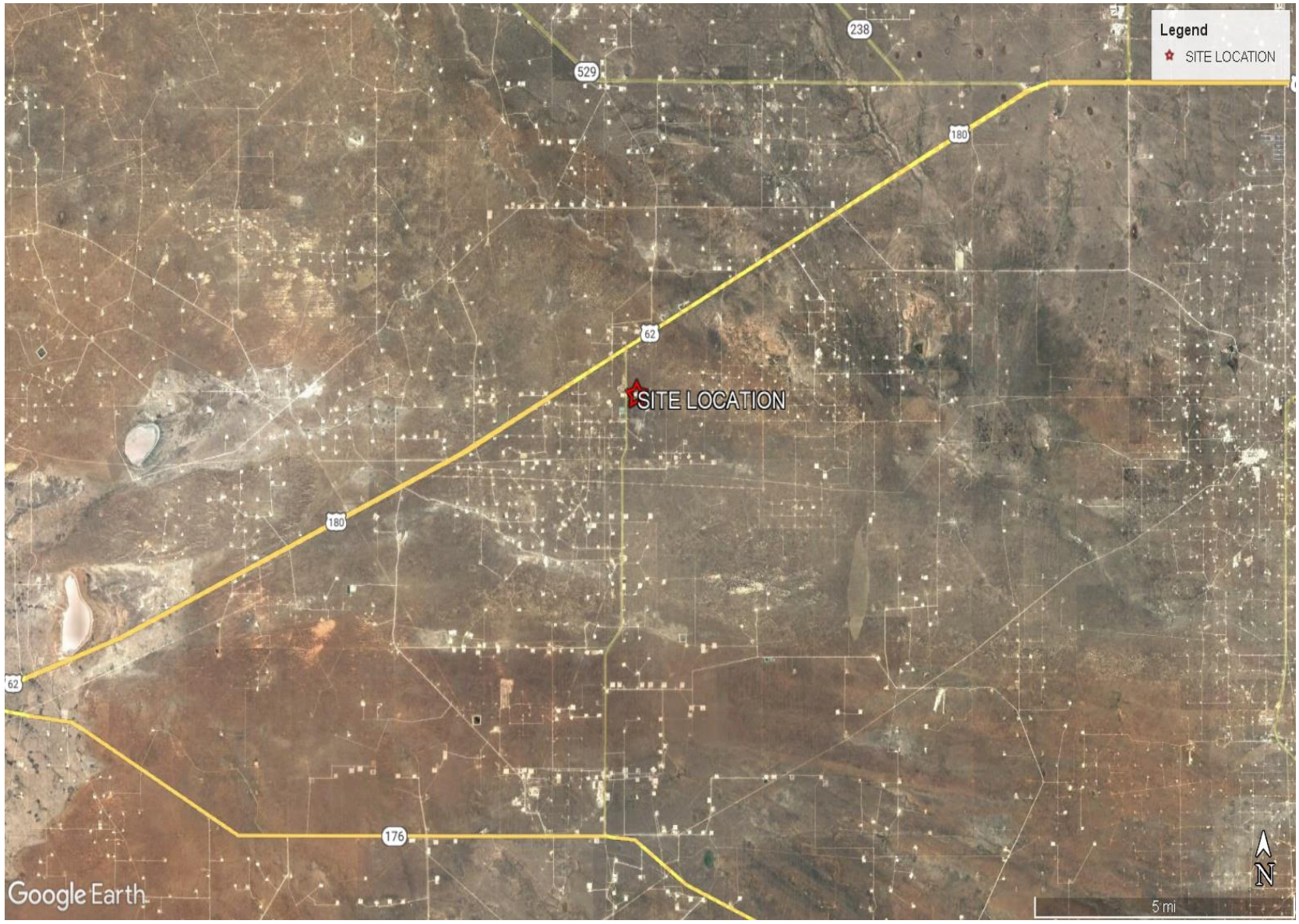
Conner Moehring
Sr. Project Manager

Ashton Thielke
Sr. Project Manager

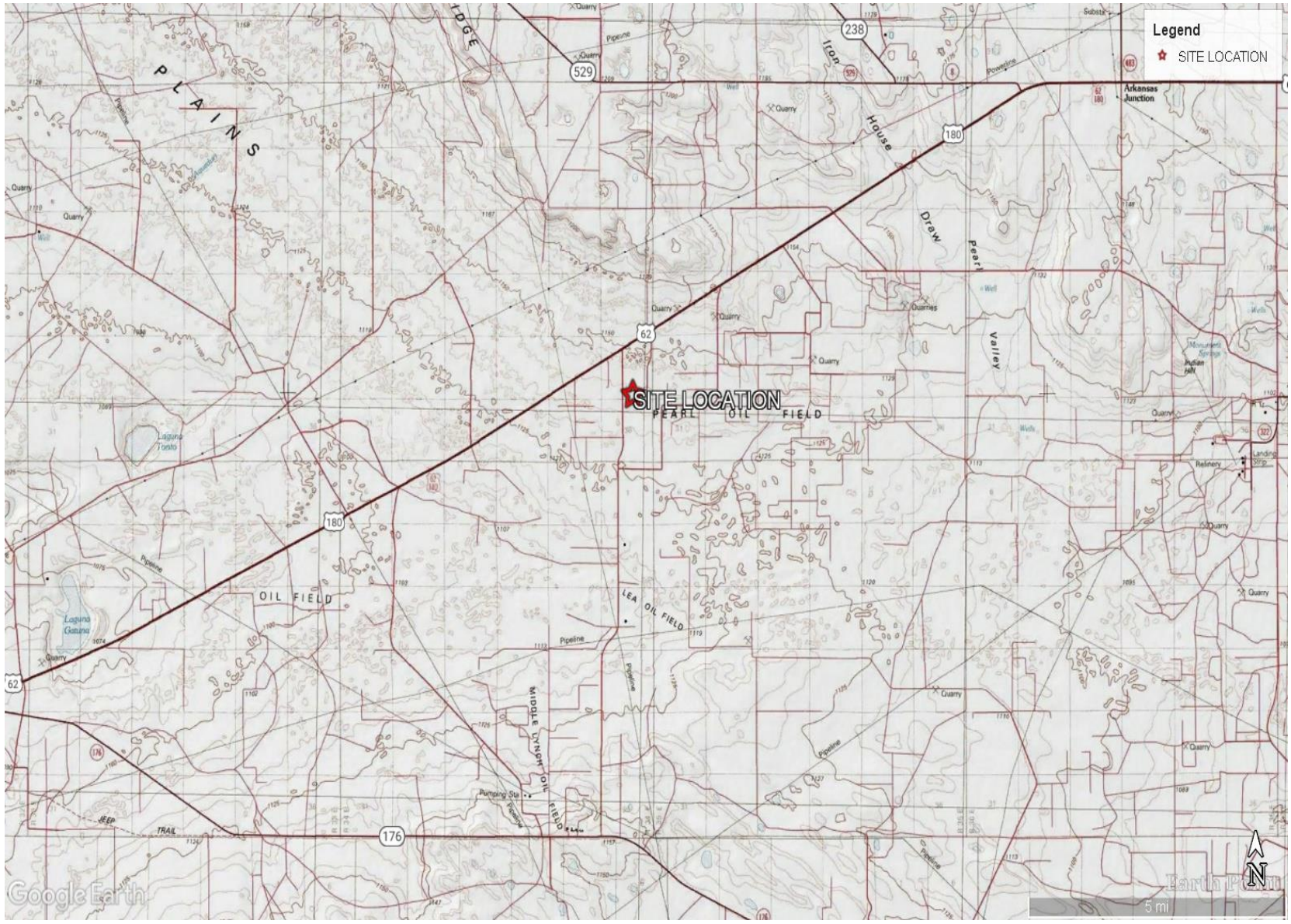
310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

FIGURES

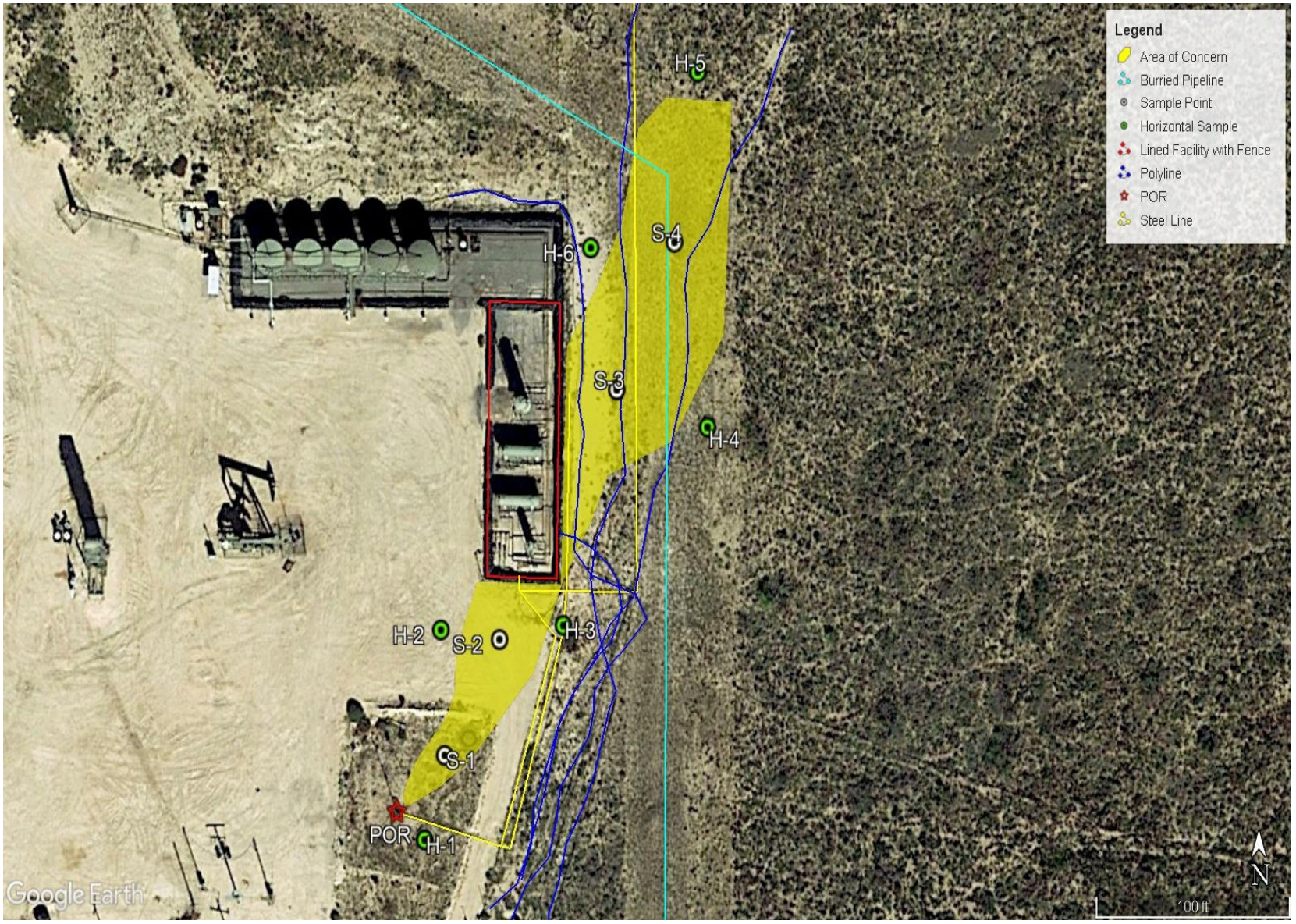
CARMONA RESOURCES



OVERVIEW MAP COG OPERATING TUSK FEDERAL 004H (03.30.23) LEA COUNTY, NEW MEXICO 32.62481, -103.51141	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP COG OPERATING TUSK FEDERAL 004H (03.30.23) LEA COUNTY, NEW MEXICO 32.62481, -103.51141	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP COG OPERATING TUSK FEDERAL 004H (03.30.23) LEA COUNTY, NEW MEXICO 32.62481, -103.51141	CARMONA RESOURCES	FIGURE 3

APPENDIX A

CARMONA RESOURCES

Table 1
Conoco Phillips
Tusk Fed 4H (3.30.23)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	5/23/2023	0-1.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	92.5
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	54.7
	"	2	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	37.2
S-2	5/23/2023	0-1.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	57.4
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	66.9
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	75.7
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	53.0
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	45.2
	"	5.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	42.5
S-3	5/23/2023	0-1.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	147
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	74.3
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	82.0
	"	2.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	244
S-4	5/23/2023	0-1.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	67.9
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	56.8
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	49.3
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	120
	"	4.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	77.1
H-1	5/23/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	37.0
H-2	5/23/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	38.2
H-3	5/23/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	37.7
H-4	5/23/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	44.9
H-5	5/23/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	39.9
H-6	5/23/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	46.9
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

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

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Tusk Federal 004H (03.30.2023)

County: Eddy County, New Mexico

Description:
View East, Area of S-1.

Photograph No. 2

Facility: Tusk Federal 004H (03.30.2023)

County: Eddy County, New Mexico

Description:
View Northwest, Area of S-2.

Photograph No. 3

Facility: Tusk Federal 004H (03.30.2023)

County: Eddy County, New Mexico

Description:
View East, Area of S-3.

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Tusk Federal 004H (03.30.2023)

County: Eddy County, New Mexico

Description:
View North, Area of S-3 & S-4.

Photograph No. 5

Facility: Tusk Federal 004H (03.30.2023)

County: Eddy County, New Mexico

Description:
View West, Area of S-4.

APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

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

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

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

Printed Name _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacob Laird Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 6/30/2023

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Jacob Laird Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 6/30/2023

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

Closure Approved by: Nelson Velez Date: 09/22/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

COG Operating

286' - Drilled 1982

28' - Drilled 1985

Tusk Fed 4H (3.30.23)

Legend

- 0.05 Miles
- 0.50 Mile Radius
- 1.27 Miles
- NMSEO Water Well
- Tusk Fed 4H (3.30.23)

Google Earth

4000 ft

N

Low Karst

COG Operating

Legend

Low

Tusk Fed 4H (3.30.23)

Tusk Fed 4H (3.30.23)

N

1 mi

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00683 POD1	CP	LE	3	3	4	25	19S	34E	639530	3610685*	73	120	28	92
CP 01672 POD1	CP	LE	1	3	1	36	19S	34E	638736	3610009	1103	100		
L 08941	L	LE	2	3	3	19	19S	35E	640510	3612523	2042	600	286	314
L 04157	L	LE		3	3	06	20S	35E	640483	3607561*	3253	70	64	6
L 15106 POD3	L	LE	2	1	2	32	19S	35E	642875	3610512	3277	55	28	27
L 14876 POD12	L	LE	2	1	2	32	19S	35E	642974	3610515	3375			
L 14876 POD8	L	LE	2	1	2	32	19S	35E	642983	3610507	3385			
L 14876 POD13	L	LE	2	1	2	32	19S	35E	642987	3610500	3389		18	
L 14876 POD11	L	LE	2	1	2	32	19S	35E	642990	3610522	3390			
L 14876 POD5	L	LE	2	1	2	32	19S	35E	642992	3610517	3393			
L 14876 POD2	L	LE	2	1	2	32	19S	35E	642992	3610483	3395	37	28	9
L 15106 POD1	L	LE	2	1	2	32	19S	35E	643002	3610606	3400	56	21	35
L 14876 POD10	L	LE	2	1	2	32	19S	35E	642998	3610500	3400			
L 14876 POD9	L	LE	2	1	2	32	19S	35E	643000	3610508	3402			
L 14876 POD3	L	LE	2	1	2	32	19S	35E	643014	3610535	3414	40	0	40
L 14876 POD1	L	LE	2	1	2	32	19S	35E	643011	3610472	3415	25	0	25
L 14876 POD4	L	LE	2	1	2	32	19S	35E	643016	3610516	3417	25	22	3
L 14876 POD14	L	LE	2	1	2	32	19S	35E	643023	3610529	3424			
L 14876 POD7	L	LE	2	1	2	32	19S	35E	643026	3610515	3427		19	
L 15106 POD2	L	LE	1	2	2	32	19S	35E	643119	3610506	3521	55	51	4

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

Average Depth to Water: **47 feet**

Minimum Depth: **0 feet**

Maximum Depth: **286 feet**

Record Count: 20

UTMNAD83 Radius Search (in meters):

Easting (X): 639602.96 **Northing (Y):** 3610692.97 **Radius:** 4000

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00683 POD1	3	3	4	25	19S	34E	639530	3610685*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	MURRELL ABBOTT				
Drill Start Date:	07/18/1985	**Drill Finish Date:**	07/20/1985	**Plug Date:**	
Log File Date:	08/16/1985	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	1 GPM
Casing Size:	4.00	**Depth Well:**	120 feet	**Depth Water:**	28 feet

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

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
NA	L 08941	2	3	3	19	19S	35E	640510	3612523

Driller License: 319 **Driller Company:** NEW MEXICO STATE HIGHWAY DEPT.

Driller Name: LOVELACE

Drill Start Date: 07/08/1982 **Drill Finish Date:** 08/09/1982 **Plug Date:**

Log File Date: 08/30/1982 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 12 GPM

Casing Size: 6.63 **Depth Well:** 600 feet **Depth Water:** 286 feet

Water Bearing Stratifications:	Top	Bottom	Description
	280	295	Sandstone/Gravel/Conglomerate
	510	560	Other/Unknown

Casing Perforations:	Top	Bottom
	510	530
	560	570

Meter Number: 17820 **Meter Make:** TURBINES INC

Meter Serial Number: 08051601 **Meter Multiplier:** 1.0000

Number of Dials: 7 **Meter Type:** Diversion

Unit of Measure: Barrels 42 gal. **Return Flow Percent:**

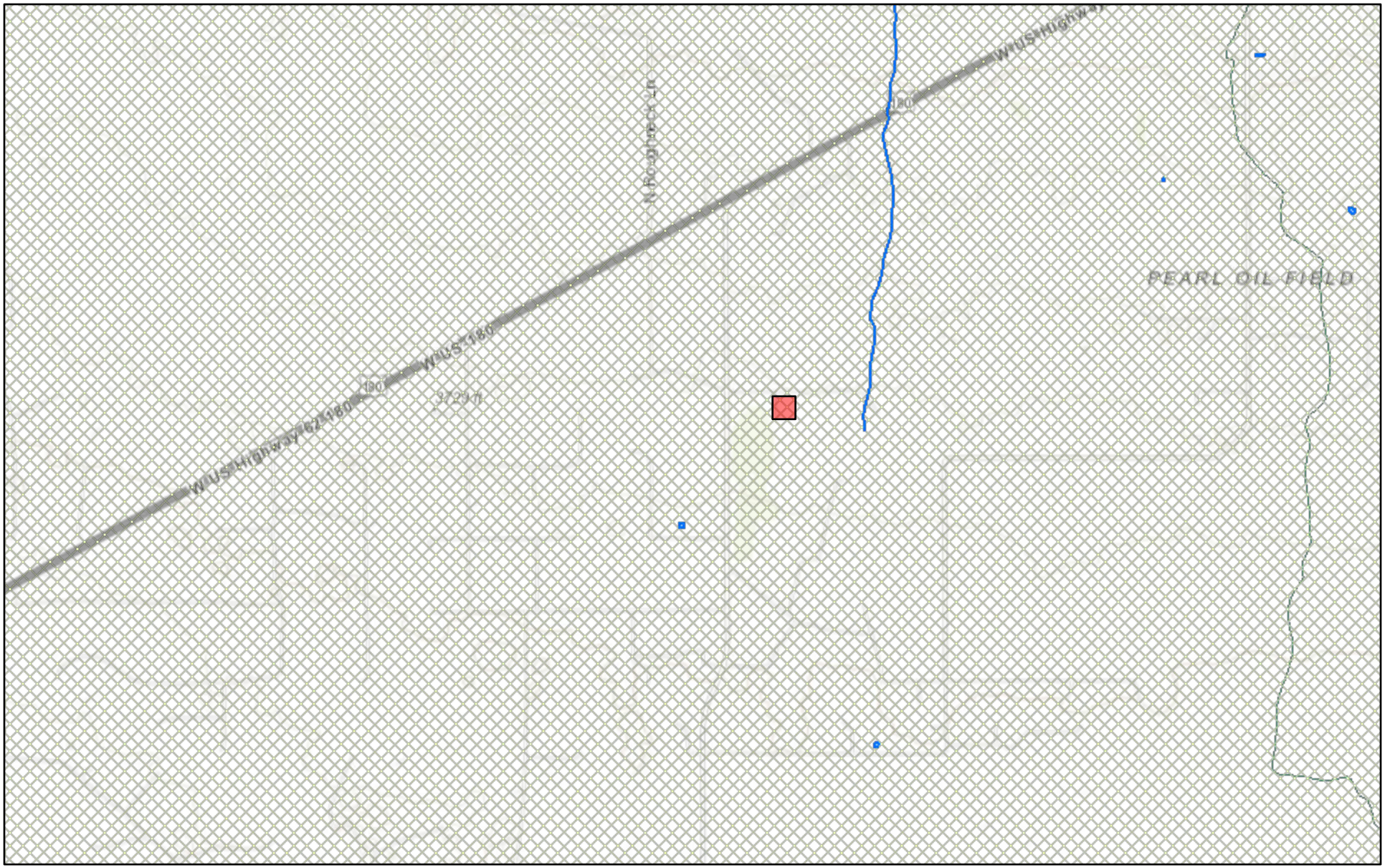
Usage Multiplier: **Reading Frequency:** Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
03/01/2017	2017	17259	A	ap		0	
12/01/2017	2017	42330	A	ap		3.231	
01/01/2018	2018	42330	A	ap		0	
03/01/2018	2018	50271	A	ap		1.024	
06/01/2018	2018	62582	A	ap		1.587	
07/01/2018	2018	68319	A	ap		0.739	
08/01/2018	2018	69669	A	ap		0.174	
09/01/2018	2018	70515	A	ap		0.109	
11/01/2018	2018	75584	A	ap		0.653	
12/01/2018	2018	78697	A	ap		0.401	

**YTD Meter Amounts:	Year	Amount
	2017	3.231
	2018	4.687

New Mexico NFHL Data



May 24, 2023

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

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

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APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/31/2023 10:16:44 AM

JOB DESCRIPTION

Tuk Fed 4H (3.30.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-28855-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

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
5/31/2023 10:16:44 AM

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

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Laboratory Job ID: 880-28855-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

Job ID: 880-28855-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-28855-1

Receipt
The samples were received on 5/26/2023 1:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-28855-1), H-2 (0-0.5') (880-28855-2), H-3 (0-0.5') (880-28855-3), H-4 (0-0.5') (880-28855-4), H-5 (0-0.5') (880-28855-5) and H-6 (0-0.5') (880-28855-6).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-54251 and analytical batch 880-54313 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-54313/5), (LCS 880-54251/2-A) and (LCSD 880-54251/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-4737-A-10-B), (890-4737-A-10-C MS) and (890-4737-A-10-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-6 (0-0.5') (880-28855-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-54313 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.The associated sample is impacted: (CCV 880-54313/5).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54251 and analytical batch 880-54313 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-54267 and analytical batch 880-54316 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.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54268 and analytical batch 880-54393 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28855-1
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:26	05/31/23 01:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:26	05/31/23 01:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:26	05/31/23 01:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/30/23 09:26	05/31/23 01:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:26	05/31/23 01:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/30/23 09:26	05/31/23 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/30/23 09:26*	*05/31/23 01:30*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/30/23 09:26*	*05/31/23 01:30*	*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			05/31/23 09:57	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			05/30/23 15:27	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		05/26/23 15:58	05/27/23 18:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 18:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/26/23 15:58*	*05/27/23 18:25*	*1*
o-Terphenyl	*103*		*70 - 130*	*05/26/23 15:58*	*05/27/23 18:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.0**	**F1**	4.98		mg/Kg			05/30/23 10:51	1

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

Lab Sample ID: 880-28855-2
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:26	05/31/23 02:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:26	05/31/23 02:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:26	05/31/23 02:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/30/23 09:26	05/31/23 02:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:26	05/31/23 02:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/30/23 09:26	05/31/23 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/30/23 09:26*	*05/31/23 02:53*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/30/23 09:26*	*05/31/23 02:53*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28855-2
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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			05/31/23 09:57	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			05/30/23 15:27	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		05/26/23 15:58	05/27/23 18:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 18:48	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/26/23 15:58*	*05/27/23 18:48*	*1*
o-Terphenyl	*104*		*70 - 130*	*05/26/23 15:58*	*05/27/23 18:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.2**		5.02		mg/Kg			05/30/23 11:08	1

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

Lab Sample ID: 880-28855-3
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:26	05/31/23 03:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:26	05/31/23 03:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:26	05/31/23 03:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 09:26	05/31/23 03:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:26	05/31/23 03:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 09:26	05/31/23 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/30/23 09:26*	*05/31/23 03:13*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/30/23 09:26*	*05/31/23 03:13*	*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			05/31/23 09:57	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			05/30/23 15:27	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		05/26/23 15:58	05/27/23 19:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 15:58	05/27/23 19:10	1

Client Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28855-3
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 15:58	05/27/23 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/26/23 15:58*	*05/27/23 19:10*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/26/23 15:58*	*05/27/23 19:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.7**		4.95		mg/Kg			05/30/23 11:13	1

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

Lab Sample ID: 880-28855-4
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:26	05/31/23 03:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:26	05/31/23 03:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:26	05/31/23 03:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/30/23 09:26	05/31/23 03:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:26	05/31/23 03:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/30/23 09:26	05/31/23 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/30/23 09:26*	*05/31/23 03:34*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/30/23 09:26*	*05/31/23 03:34*	*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			05/31/23 09:57	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			05/30/23 15:27	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		05/26/23 15:58	05/27/23 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 19:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/26/23 15:58*	*05/27/23 19:33*	*1*
o-Terphenyl	*117*		*70 - 130*	*05/26/23 15:58*	*05/27/23 19:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.9**		4.96		mg/Kg			05/30/23 11:29	1

Client Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-28855-5
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:26	05/31/23 03:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:26	05/31/23 03:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:26	05/31/23 03:54	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/30/23 09:26	05/31/23 03:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:26	05/31/23 03:54	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/30/23 09:26	05/31/23 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/30/23 09:26*	*05/31/23 03:54*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*05/30/23 09:26*	*05/31/23 03:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/31/23 09:57	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			05/30/23 15:27	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		05/26/23 15:58	05/27/23 19:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 19:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/26/23 15:58*	*05/27/23 19:55*	*1*
o-Terphenyl	*121*		*70 - 130*	*05/26/23 15:58*	*05/27/23 19:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.9**		5.00		mg/Kg			05/30/23 11:34	1

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-28855-6
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:26	05/31/23 04:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:26	05/31/23 04:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:26	05/31/23 04:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/30/23 09:26	05/31/23 04:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:26	05/31/23 04:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/30/23 09:26	05/31/23 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/30/23 09:26*	*05/31/23 04:15*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/30/23 09:26*	*05/31/23 04:15*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-28855-6
Date Collected: 05/23/23 00:00
Matrix: Solid
Date Received: 05/26/23 13:04

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			05/31/23 09:57	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			05/30/23 11:07	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		05/26/23 14:15	05/27/23 23:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 14:15	05/27/23 23:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 14:15	05/27/23 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*171*	*S1+*	*70 - 130*	*05/26/23 14:15*	*05/27/23 23:03*	*1*
o-Terphenyl	*161*	*S1+*	*70 - 130*	*05/26/23 14:15*	*05/27/23 23:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.9**		5.04		mg/Kg			05/30/23 11:40	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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)
880-28855-1	H-1 (0-0.5')	102	98
880-28855-2	H-2 (0-0.5')	97	110
880-28855-3	H-3 (0-0.5')	95	100
880-28855-4	H-4 (0-0.5')	95	99
880-28855-5	H-5 (0-0.5')	94	103
880-28855-6	H-6 (0-0.5')	101	98
890-4735-A-29-D MS	Matrix Spike	88	115
890-4735-A-29-E MSD	Matrix Spike Duplicate	90	113
LCS 880-54363/1-A	Lab Control Sample	108	112
LCSD 880-54363/2-A	Lab Control Sample Dup	108	106
MB 880-54363/5-A	Method Blank	72	84
MB 880-54365/5-A	Method Blank	90	109

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)
880-28851-A-21-D MS	Matrix Spike	98	90
880-28851-A-21-E MSD	Matrix Spike Duplicate	97	90
880-28855-1	H-1 (0-0.5')	98	103
880-28855-2	H-2 (0-0.5')	98	104
880-28855-3	H-3 (0-0.5')	96	98
880-28855-4	H-4 (0-0.5')	111	117
880-28855-5	H-5 (0-0.5')	115	121
880-28855-6	H-6 (0-0.5')	171 S1+	161 S1+
890-4737-A-10-C MS	Matrix Spike	154 S1+	117
890-4737-A-10-D MSD	Matrix Spike Duplicate	158 S1+	119
LCS 880-54251/2-A	Lab Control Sample	163 S1+	148 S1+
LCS 880-54267/2-A	Lab Control Sample	84	91
LCSD 880-54251/3-A	Lab Control Sample Dup	155 S1+	140 S1+
LCSD 880-54267/3-A	Lab Control Sample Dup	100	106
MB 880-54251/1-A	Method Blank	287 S1+	273 S1+
MB 880-54267/1-A	Method Blank	203 S1+	223 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54363/5-A
Matrix: Solid
Analysis Batch: 54337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54363

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:26	05/30/23 22:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:26	05/30/23 22:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:26	05/30/23 22:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 09:26	05/30/23 22:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:26	05/30/23 22:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 09:26	05/30/23 22:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*05/30/23 09:26*	*05/30/23 22:05*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/30/23 09:26*	*05/30/23 22:05*	*1*

Lab Sample ID: LCS 880-54363/1-A
Matrix: Solid
Analysis Batch: 54337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54363

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1290		mg/Kg		129	70 - 130
Toluene	0.100	0.1206		mg/Kg		121	70 - 130
Ethylbenzene	0.100	0.1185		mg/Kg		118	70 - 130
m-Xylene & p-Xylene	0.200	0.2423		mg/Kg		121	70 - 130
o-Xylene	0.100	0.1228		mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-54363/2-A
Matrix: Solid
Analysis Batch: 54337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54363

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1226		mg/Kg		123	70 - 130	5	35
Toluene	0.100	0.1199		mg/Kg		120	70 - 130	1	35
Ethylbenzene	0.100	0.1196		mg/Kg		120	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2450		mg/Kg		123	70 - 130	1	35
o-Xylene	0.100	0.1240		mg/Kg		124	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-4735-A-29-D MS
Matrix: Solid
Analysis Batch: 54337

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 54363

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.1299		mg/Kg		129	70 - 130
Toluene	<0.00202	U	0.101	0.09912		mg/Kg		98	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-4735-A-29-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54337 — **Prep Batch: 54363**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.101	0.08906		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.202	0.1704		mg/Kg		84	70 - 130
o-Xylene	<0.00202	U	0.101	0.08521		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 890-4735-A-29-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54337 — **Prep Batch: 54363**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0994	0.1167		mg/Kg		117	70 - 130	11	35
Toluene	<0.00202	U	0.0994	0.08963		mg/Kg		90	70 - 130	10	35
Ethylbenzene	<0.00202	U	0.0994	0.08060		mg/Kg		81	70 - 130	10	35
m-Xylene & p-Xylene	<0.00404	U	0.199	0.1535		mg/Kg		77	70 - 130	10	35
o-Xylene	<0.00202	U	0.0994	0.07682		mg/Kg		77	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: MB 880-54365/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54337 — **Prep Batch: 54365**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:40	05/30/23 11:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 09:40	05/30/23 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/30/23 09:40*	*05/30/23 11:30*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/30/23 09:40*	*05/30/23 11:30*	*1*

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

Lab Sample ID: MB 880-54251/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54313 — **Prep Batch: 54251**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 14:15	05/27/23 20:55	1

QC Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-54251/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54313 — **Prep Batch: 54251**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 14:15	05/27/23 20:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 14:15	05/27/23 20:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*287*	*S1+*	*70 - 130*	*05/26/23 14:15*	*05/27/23 20:55*	*1*
o-Terphenyl	*273*	*S1+*	*70 - 130*	*05/26/23 14:15*	*05/27/23 20:55*	*1*

Lab Sample ID: LCS 880-54251/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54313 — **Prep Batch: 54251**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1024		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	890.4		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*163*	*S1+*	*70 - 130*
o-Terphenyl	*148*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-54251/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54313 — **Prep Batch: 54251**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1041		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	985.4		mg/Kg		99	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*155*	*S1+*	*70 - 130*
o-Terphenyl	*140*	*S1+*	*70 - 130*

Lab Sample ID: 890-4737-A-10-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54313 — **Prep Batch: 54251**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	934.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	2920	F1	997	1342	F1	mg/Kg		-159	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*154*	*S1+*	*70 - 130*
o-Terphenyl	*117*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-4737-A-10-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54313 — **Prep Batch: 54251**

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	972.8		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	2920	F1	999	1386	F1	mg/Kg		-154	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*158*	*S1+*	*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: MB 880-54267/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54316 — **Prep Batch: 54267**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 09:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 09:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 09:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*203*	*S1+*	*70 - 130*	*05/26/23 15:58*	*05/27/23 09:06*	*1*
o-Terphenyl	*223*	*S1+*	*70 - 130*	*05/26/23 15:58*	*05/27/23 09:06*	*1*

Lab Sample ID: LCS 880-54267/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54316 — **Prep Batch: 54267**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	817.4		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	831.8		mg/Kg		83	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-54267/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54316 — **Prep Batch: 54267**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	839.2		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1005		mg/Kg		100	70 - 130	19	20

QC Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-54267/3-A
Matrix: Solid
Analysis Batch: 54316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54267

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

Lab Sample ID: 880-28851-A-21-D MS
Matrix: Solid
Analysis Batch: 54316

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 54267

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	999	817.9		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	893.8		mg/Kg		89	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-28851-A-21-E MSD
Matrix: Solid
Analysis Batch: 54316

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 54267

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	999	831.4		mg/Kg		81	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	879.5		mg/Kg		88	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	90		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54268/1-A
Matrix: Solid
Analysis Batch: 54393

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/30/23 09:05	1

Lab Sample ID: LCS 880-54268/2-A
Matrix: Solid
Analysis Batch: 54393

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.3		mg/Kg		103	90 - 110		

QC Sample Results

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-54268/3-A
Matrix: Solid
Analysis Batch: 54393

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	256.4		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-28855-1 MS
Matrix: Solid
Analysis Batch: 54393

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	37.0	F1	249	259.9		mg/Kg		90	90 - 110		

Lab Sample ID: 880-28855-1 MSD
Matrix: Solid
Analysis Batch: 54393

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37.0	F1	249	256.7	F1	mg/Kg		88	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 54337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-1	H-1 (0-0.5')	Total/NA	Solid	8021B	54363
880-28855-2	H-2 (0-0.5')	Total/NA	Solid	8021B	54363
880-28855-3	H-3 (0-0.5')	Total/NA	Solid	8021B	54363
880-28855-4	H-4 (0-0.5')	Total/NA	Solid	8021B	54363
880-28855-5	H-5 (0-0.5')	Total/NA	Solid	8021B	54363
880-28855-6	H-6 (0-0.5')	Total/NA	Solid	8021B	54363
MB 880-54363/5-A	Method Blank	Total/NA	Solid	8021B	54363
MB 880-54365/5-A	Method Blank	Total/NA	Solid	8021B	54365
LCS 880-54363/1-A	Lab Control Sample	Total/NA	Solid	8021B	54363
LCSD 880-54363/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54363
890-4735-A-29-D MS	Matrix Spike	Total/NA	Solid	8021B	54363
890-4735-A-29-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	54363

Prep Batch: 54363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-28855-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-28855-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-28855-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-28855-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-28855-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-54363/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54363/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54363/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4735-A-29-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4735-A-29-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 54365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54365/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 54473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28855-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28855-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28855-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28855-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28855-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 54251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-54251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4737-A-10-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4737-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

GC Semi VOA

Prep Batch: 54267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28855-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28855-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28855-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28855-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-54267/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54267/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54267/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28851-A-21-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28851-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	54251
MB 880-54251/1-A	Method Blank	Total/NA	Solid	8015B NM	54251
LCS 880-54251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54251
LCSD 880-54251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54251
890-4737-A-10-C MS	Matrix Spike	Total/NA	Solid	8015B NM	54251
890-4737-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	54251

Analysis Batch: 54316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28855-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28855-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28855-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28855-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	54267
MB 880-54267/1-A	Method Blank	Total/NA	Solid	8015B NM	54267
LCS 880-54267/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54267
LCSD 880-54267/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54267
880-28851-A-21-D MS	Matrix Spike	Total/NA	Solid	8015B NM	54267
880-28851-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	54267

Analysis Batch: 54382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-28855-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-28855-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-28855-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-28855-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-28855-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 54268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-28855-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-28855-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-28855-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-28855-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 54268 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-54268/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54268/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54268/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28855-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-28855-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 54393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28855-1	H-1 (0-0.5')	Soluble	Solid	300.0	54268
880-28855-2	H-2 (0-0.5')	Soluble	Solid	300.0	54268
880-28855-3	H-3 (0-0.5')	Soluble	Solid	300.0	54268
880-28855-4	H-4 (0-0.5')	Soluble	Solid	300.0	54268
880-28855-5	H-5 (0-0.5')	Soluble	Solid	300.0	54268
880-28855-6	H-6 (0-0.5')	Soluble	Solid	300.0	54268
MB 880-54268/1-A	Method Blank	Soluble	Solid	300.0	54268
LCS 880-54268/2-A	Lab Control Sample	Soluble	Solid	300.0	54268
LCSD 880-54268/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54268
880-28855-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	54268
880-28855-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	54268

Lab Chronicle

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28855-1
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	54363	05/30/23 09:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54337	05/31/23 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54473	05/31/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54382	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 18:25	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 10:51	CH	EET MID

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

Lab Sample ID: 880-28855-2
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54363	05/30/23 09:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54337	05/31/23 02:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54473	05/31/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54382	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 18:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 11:08	CH	EET MID

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

Lab Sample ID: 880-28855-3
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54363	05/30/23 09:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54337	05/31/23 03:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54473	05/31/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54382	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 19:10	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 11:13	CH	EET MID

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

Lab Sample ID: 880-28855-4
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54363	05/30/23 09:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54337	05/31/23 03:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54473	05/31/23 09:57	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28855-4
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54382	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 19:33	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 11:29	CH	EET MID

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-28855-5
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54363	05/30/23 09:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54337	05/31/23 03:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54473	05/31/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54382	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 19:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 11:34	CH	EET MID

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-28855-6
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54363	05/30/23 09:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54337	05/31/23 04:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54473	05/31/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54382	05/30/23 11:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54251	05/26/23 14:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54313	05/27/23 23:03	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 11:40	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: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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	T104704400-22-25	06-30-23

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: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

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: Tuk Fed 4H (3.30.23)

Job ID: 880-28855-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28855-1	H-1 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28855-2	H-2 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28855-3	H-3 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28855-4	H-4 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28855-5	H-5 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28855-6	H-6 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04

Work Order No: 28855

5/31/2023

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

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Tusk Fed 4H (3 30 23)	Turn Around	
Project Number	2036	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date	72 Hrs
Sampler's Name	KB		
PO #			

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice	(Yes) No
Received Intact.	(Yes) No	Thermometer ID	IR6
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-0.3
Sample Custody Seals	Yes No (N/A)	Temperature Reading	1.4
Total Containers		Corrected Temperature	1.1

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
H-1 (0-0 5')	5/23/2023		X		G	1		X	X	X
H-2 (0-0 5')	5/23/2023		X		G	1		X	X	X
H-3 (0-0 5')	5/23/2023		X		G	1		X	X	X
H-4 (0-0 5')	5/23/2023		X		G	1		X	X	X
H-5 (0-0 5')	5/23/2023		X		G	1		X	X	X
H-6 (0-0 5')	5/23/2023		X		G	1		X	X	X

Preservative Codes

None NO	DI Water H_2O
Cool Cool	MeOH Me
HCL HC	HNO_3 HN
H_2S0_4 H_2	NaOH Na
H_3PO_4 HP	
$NaHSO_4$ NABIS	
$Na_2S_2O_3$ $NaSO_3$	
Zn Acetate+NaOH Zn	
NaOH+Ascorbic Acid SAPC	

Sample Comments

880-28855 Chain of Custody

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	5/26 - 1:00pm		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-28855-1
SDG Number: Lea County, New Mexico

Login Number: 28855
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/1/2023 8:49:31 AM

JOB DESCRIPTION

Tusk Fed 4H (3.30.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-28859-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

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
6/1/2023 8:49:31 AM

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

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Laboratory Job ID: 880-28859-1
SDG: Lea County, New Mexico

Table of Contents

Eurofins Midland
6/1/2023

Definitions/Glossary

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Job ID: 880-28859-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-28859-1

Receipt
The samples were received on 5/26/2023 1:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1.0') (880-28859-1), S-1 (1.5') (880-28859-2), S-1 (2.0') (880-28859-3), S-2 (0-1.0') (880-28859-4), S-2 (1.5') (880-28859-5), S-2 (2.0') (880-28859-6), S-2 (3.0') (880-28859-7), S-2 (4.0') (880-28859-8), S-2 (5.0') (880-28859-9), S-3 (0-1.0') (880-28859-10), S-3 (1.5') (880-28859-11), S-3 (2.0') (880-28859-12), S-3 (2.5') (880-28859-13), S-4 (0-1.0') (880-28859-14), S-4 (1.5') (880-28859-15), S-4 (2.0') (880-28859-16), S-4 (3.0') (880-28859-17) and S-4 (4.0') (880-28859-18).

GC VOA
Method 8021B: The CCV was biased low for benzene. Another CCV was analyzed and acceptable within the method specified 12 hour window; therefore, the data was qualified and reported. (CCV 880-54454/20)

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-54324/20) and (CCV 880-54324/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-1.0') (880-28859-1), S-2 (2.0') (880-28859-6), S-2 (3.0') (880-28859-7), S-2 (4.0') (880-28859-8), S-2 (5.0') (880-28859-9) and S-3 (2.5') (880-28859-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-54292/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54269 and analytical batch 880-54394 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1.0')

Lab Sample ID: 880-28859-1
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 13:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:50	05/31/23 13:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:50	05/31/23 13:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/30/23 09:50	05/31/23 13:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:50	05/31/23 13:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/30/23 09:50	05/31/23 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*05/30/23 09:50*	*05/31/23 13:12*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/30/23 09:50*	*05/31/23 13:12*	*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			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 11:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 11:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*05/26/23 17:36*	*05/28/23 11:40*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/26/23 17:36*	*05/28/23 11:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.5**		4.98		mg/Kg			05/30/23 11:49	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-28859-2
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 13:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:50	05/31/23 13:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:50	05/31/23 13:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/30/23 09:50	05/31/23 13:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:50	05/31/23 13:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/30/23 09:50	05/31/23 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/30/23 09:50*	*05/31/23 13:32*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/30/23 09:50*	*05/31/23 13:32*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-28859-2
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 12:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 12:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*05/26/23 17:36*	*05/28/23 12:50*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/26/23 17:36*	*05/28/23 12:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.7**		5.00		mg/Kg			05/30/23 11:54	1

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-28859-3
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 13:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 13:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 13:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/30/23 09:50	05/31/23 13:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 13:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/30/23 09:50	05/31/23 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*05/30/23 09:50*	*05/31/23 13:53*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/30/23 09:50*	*05/31/23 13:53*	*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			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 13:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 13:12	1

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-28859-3
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*05/26/23 17:36*	*05/28/23 13:12*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/26/23 17:36*	*05/28/23 13:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.2**		4.97		mg/Kg			05/30/23 12:00	1

Client Sample ID: S-2 (0-1.0')

Lab Sample ID: 880-28859-4
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 14:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 14:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 14:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/30/23 09:50	05/31/23 14:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 14:13	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/30/23 09:50	05/31/23 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/30/23 09:50*	*05/31/23 14:13*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/30/23 09:50*	*05/31/23 14:13*	*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			06/01/23 09:02	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			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 13:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 13:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*05/26/23 17:36*	*05/28/23 13:35*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/26/23 17:36*	*05/28/23 13:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.4**		4.95		mg/Kg			05/30/23 15:44	1

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-28859-5
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 14:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 14:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 14:34	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/30/23 09:50	05/31/23 14:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 14:34	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/30/23 09:50	05/31/23 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/30/23 09:50*	*05/31/23 14:34*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/30/23 09:50*	*05/31/23 14:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/26/23 17:36	05/28/23 13:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/26/23 17:36	05/28/23 13:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/26/23 17:36	05/28/23 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*05/26/23 17:36*	*05/28/23 13:59*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/26/23 17:36*	*05/28/23 13:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.9**		5.02		mg/Kg			05/30/23 16:00	1

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-28859-6
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 14:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:50	05/31/23 14:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:50	05/31/23 14:54	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/30/23 09:50	05/31/23 14:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:50	05/31/23 14:54	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/30/23 09:50	05/31/23 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/30/23 09:50*	*05/31/23 14:54*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/30/23 09:50*	*05/31/23 14:54*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-28859-6
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 14:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 14:22	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*05/26/23 17:36*	*05/28/23 14:22*	*1*
o-Terphenyl	*102*		*70 - 130*	*05/26/23 17:36*	*05/28/23 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.7**		5.04		mg/Kg			05/30/23 16:06	1

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-28859-7
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 15:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 15:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 15:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/30/23 09:50	05/31/23 15:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 15:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/30/23 09:50	05/31/23 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/30/23 09:50*	*05/31/23 15:14*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*05/30/23 09:50*	*05/31/23 15:14*	*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			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 14:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 14:45	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-28859-7
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*05/26/23 17:36*	*05/28/23 14:45*	*1*
o-Terphenyl	*101*		*70 - 130*	*05/26/23 17:36*	*05/28/23 14:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.0**		4.97		mg/Kg			05/30/23 16:11	1

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-28859-8
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 15:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 15:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 15:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/30/23 09:50	05/31/23 15:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 15:35	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/30/23 09:50	05/31/23 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*05/30/23 09:50*	*05/31/23 15:35*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/30/23 09:50*	*05/31/23 15:35*	*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			06/01/23 09:02	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			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 15:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*05/26/23 17:36*	*05/28/23 15:08*	*1*
o-Terphenyl	*109*		*70 - 130*	*05/26/23 17:36*	*05/28/23 15:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.2**		5.05		mg/Kg			05/30/23 16:17	1

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (5.0')

Lab Sample ID: 880-28859-9
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 15:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:50	05/31/23 15:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:50	05/31/23 15:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/30/23 09:50	05/31/23 15:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:50	05/31/23 15:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/30/23 09:50	05/31/23 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/30/23 09:50*	*05/31/23 15:55*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/30/23 09:50*	*05/31/23 15:55*	*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			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 15:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 15:31	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*05/26/23 17:36*	*05/28/23 15:31*	*1*
o-Terphenyl	*102*		*70 - 130*	*05/26/23 17:36*	*05/28/23 15:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.5**		4.96		mg/Kg			05/30/23 16:33	1

Client Sample ID: S-3 (0-1.0')

Lab Sample ID: 880-28859-10
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 16:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 16:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 16:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/30/23 09:50	05/31/23 16:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 16:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/30/23 09:50	05/31/23 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/30/23 09:50*	*05/31/23 16:16*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/30/23 09:50*	*05/31/23 16:16*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (0-1.0')

Lab Sample ID: 880-28859-10
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/26/23 17:36	05/28/23 15:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/26/23 17:36	05/28/23 15:55	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/26/23 17:36	05/28/23 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*05/26/23 17:36*	*05/28/23 15:55*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/26/23 17:36*	*05/28/23 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**147**		4.96		mg/Kg			05/30/23 16:38	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-28859-11
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 18:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 18:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 18:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/30/23 09:50	05/31/23 18:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/30/23 09:50	05/31/23 18:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/30/23 09:50	05/31/23 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/30/23 09:50*	*05/31/23 18:06*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/30/23 09:50*	*05/31/23 18:06*	*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			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/26/23 17:36	05/28/23 16:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/26/23 17:36	05/28/23 16:41	1

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-28859-11
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/26/23 17:36	05/28/23 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/26/23 17:36*	*05/28/23 16:41*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/26/23 17:36*	*05/28/23 16:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.3**		5.00		mg/Kg			05/30/23 16:43	1

Client Sample ID: S-3 (2.0')

Lab Sample ID: 880-28859-12
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 18:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 18:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 18:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 09:50	05/31/23 18:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 18:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 09:50	05/31/23 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/30/23 09:50*	*05/31/23 18:27*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/30/23 09:50*	*05/31/23 18:27*	*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			06/01/23 09:02	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			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 17:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 17:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*05/26/23 17:36*	*05/28/23 17:05*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/26/23 17:36*	*05/28/23 17:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.0**		5.02		mg/Kg			05/30/23 16:49	1

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (2.5')

Lab Sample ID: 880-28859-13
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 18:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 18:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 18:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/30/23 09:50	05/31/23 18:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 18:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/30/23 09:50	05/31/23 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/30/23 09:50*	*05/31/23 18:47*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/30/23 09:50*	*05/31/23 18:47*	*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			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 17:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 17:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*252*	*S1+*	*70 - 130*	*05/26/23 17:36*	*05/28/23 17:29*	*1*
o-Terphenyl	*194*	*S1+*	*70 - 130*	*05/26/23 17:36*	*05/28/23 17:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**244**		5.01		mg/Kg			05/30/23 16:54	1

Client Sample ID: S-4 (0-1.0')

Lab Sample ID: 880-28859-14
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 19:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 19:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 19:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/30/23 09:50	05/31/23 19:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 19:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/30/23 09:50	05/31/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/30/23 09:50*	*05/31/23 19:08*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/30/23 09:50*	*05/31/23 19:08*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (0-1.0')

Lab Sample ID: 880-28859-14
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 17:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 17:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*05/26/23 17:36*	*05/28/23 17:52*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/26/23 17:36*	*05/28/23 17:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.9**		4.98		mg/Kg			05/30/23 17:05	1

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-28859-15
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 19:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:50	05/31/23 19:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:50	05/31/23 19:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/30/23 09:50	05/31/23 19:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/30/23 09:50	05/31/23 19:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/30/23 09:50	05/31/23 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/30/23 09:50*	*05/31/23 19:28*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/30/23 09:50*	*05/31/23 19:28*	*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			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 18:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 18:16	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-28859-15
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*05/26/23 17:36*	*05/28/23 18:16*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/26/23 17:36*	*05/28/23 18:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.8**		5.03		mg/Kg			05/30/23 17:27	1

Client Sample ID: S-4 (2.0')

Lab Sample ID: 880-28859-16
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 19:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 19:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 19:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/30/23 09:50	05/31/23 19:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/30/23 09:50	05/31/23 19:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/30/23 09:50	05/31/23 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/30/23 09:50*	*05/31/23 19:49*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/30/23 09:50*	*05/31/23 19:49*	*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			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 18:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 18:39	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:36	05/28/23 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*05/26/23 17:36*	*05/28/23 18:39*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/26/23 17:36*	*05/28/23 18:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.3**		4.97		mg/Kg			05/30/23 17:33	1

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (3.0')

Lab Sample ID: 880-28859-17
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 20:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 20:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 20:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 09:50	05/31/23 20:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 20:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 09:50	05/31/23 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/30/23 09:50*	*05/31/23 20:09*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/30/23 09:50*	*05/31/23 20:09*	*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			06/01/23 09:02	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			05/30/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 19:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 19:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*05/26/23 17:36*	*05/28/23 19:03*	*1*
o-Terphenyl	*85*		*70 - 130*	*05/26/23 17:36*	*05/28/23 19:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		4.99		mg/Kg			05/30/23 17:49	1

Client Sample ID: S-4 (4.0')

Lab Sample ID: 880-28859-18
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

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		05/30/23 09:50	05/31/23 20:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:50	05/31/23 20:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:50	05/31/23 20:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/30/23 09:50	05/31/23 20:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/30/23 09:50	05/31/23 20:29	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/30/23 09:50	05/31/23 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/30/23 09:50*	*05/31/23 20:29*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/30/23 09:50*	*05/31/23 20:29*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (4.0')

Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Lab Sample ID: 880-28859-18

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/01/23 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 15:43	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		05/26/23 17:40	05/28/23 11:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 17:40	05/28/23 11:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:40	05/28/23 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/26/23 17:40*	*05/28/23 11:40*	*1*
o-Terphenyl	*123*		*70 - 130*	*05/26/23 17:40*	*05/28/23 11:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.1**		5.03		mg/Kg			05/30/23 17:54	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

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)
880-28859-1	S-1 (0-1.0')	84	93
880-28859-1 MS	S-1 (0-1.0')	93	113
880-28859-1 MSD	S-1 (0-1.0')	101	97
880-28859-2	S-1 (1.5')	91	92
880-28859-3	S-1 (2.0')	87	96
880-28859-4	S-2 (0-1.0')	90	97
880-28859-5	S-2 (1.5')	94	100
880-28859-6	S-2 (2.0')	95	107
880-28859-7	S-2 (3.0')	88	106
880-28859-8	S-2 (4.0')	83	101
880-28859-9	S-2 (5.0')	86	95
880-28859-10	S-3 (0-1.0')	98	100
880-28859-11	S-3 (1.5')	86	91
880-28859-12	S-3 (2.0')	86	92
880-28859-13	S-3 (2.5')	97	93
880-28859-14	S-4 (0-1.0')	92	96
880-28859-15	S-4 (1.5')	96	97
880-28859-16	S-4 (2.0')	93	93
880-28859-17	S-4 (3.0')	100	104
880-28859-18	S-4 (4.0')	96	98
LCS 880-54366/1-A	Lab Control Sample	99	97
LCSD 880-54366/2-A	Lab Control Sample Dup	99	100
MB 880-54366/5-A	Method Blank	92	102

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)
880-28859-1	S-1 (0-1.0')	131 S1+	100
880-28859-1 MS	S-1 (0-1.0')	117	82
880-28859-1 MSD	S-1 (0-1.0')	126	87
880-28859-2	S-1 (1.5')	126	94
880-28859-3	S-1 (2.0')	126	94
880-28859-4	S-2 (0-1.0')	128	99
880-28859-5	S-2 (1.5')	127	97
880-28859-6	S-2 (2.0')	133 S1+	102
880-28859-7	S-2 (3.0')	131 S1+	101
880-28859-8	S-2 (4.0')	141 S1+	109
880-28859-9	S-2 (5.0')	132 S1+	102
880-28859-10	S-3 (0-1.0')	128	99
880-28859-11	S-3 (1.5')	122	94
880-28859-12	S-3 (2.0')	129	100
880-28859-13	S-3 (2.5')	252 S1+	194 S1+
880-28859-14	S-4 (0-1.0')	123	96

Surrogate Summary

Client: Carmona Resources Job ID: 880-28859-1
Project/Site: Tusk Fed 4H (3.30.23) SDG: Lea County, New Mexico

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)								
880-28859-15	S-4 (1.5')	114	88								
880-28859-16	S-4 (2.0')	121	92								
880-28859-17	S-4 (3.0')	112	85								
880-28859-18	S-4 (4.0')	100	123								
880-28859-18 MS	S-4 (4.0')	109	115								
880-28859-18 MSD	S-4 (4.0')	100	116								
LCS 880-54291/2-A	Lab Control Sample	125	95								
LCS 880-54292/2-A	Lab Control Sample	106	129								
LCSD 880-54291/3-A	Lab Control Sample Dup	128	96								
LCSD 880-54292/3-A	Lab Control Sample Dup	107	133 S1+								
MB 880-54291/1-A	Method Blank	115	87								
MB 880-54292/1-A	Method Blank	93	110								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54366/5-A
Matrix: Solid
Analysis Batch: 54454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 12:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 12:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 12:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 09:50	05/31/23 12:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 09:50	05/31/23 12:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 09:50	05/31/23 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/30/23 09:50*	*05/31/23 12:43*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/30/23 09:50*	*05/31/23 12:43*	*1*

Lab Sample ID: LCS 880-54366/1-A
Matrix: Solid
Analysis Batch: 54454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1092		mg/Kg		109	70 - 130
Toluene	0.100	0.1179		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1117		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2234		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130

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

Lab Sample ID: LCSD 880-54366/2-A
Matrix: Solid
Analysis Batch: 54454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54366

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1191		mg/Kg		119	70 - 130	9	35
Toluene	0.100	0.1243		mg/Kg		124	70 - 130	5	35
Ethylbenzene	0.100	0.1159		mg/Kg		116	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2272		mg/Kg		114	70 - 130	2	35
o-Xylene	0.100	0.1036		mg/Kg		104	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-28859-1 MS
Matrix: Solid
Analysis Batch: 54454

Client Sample ID: S-1 (0-1.0')
Prep Type: Total/NA
Prep Batch: 54366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.1104		mg/Kg		109	70 - 130
Toluene	<0.00202	U	0.101	0.1052		mg/Kg		104	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28859-1 MS
Matrix: Solid
Analysis Batch: 54454

Client Sample ID: S-1 (0-1.0')
Prep Type: Total/NA
Prep Batch: 54366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.101	0.09611		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.202	0.1884		mg/Kg		93	70 - 130
o-Xylene	<0.00202	U	0.101	0.08579		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-28859-1 MSD
Matrix: Solid
Analysis Batch: 54454

Client Sample ID: S-1 (0-1.0')
Prep Type: Total/NA
Prep Batch: 54366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0994	0.1190		mg/Kg		120	70 - 130	8	35
Toluene	<0.00202	U	0.0994	0.1154		mg/Kg		116	70 - 130	9	35
Ethylbenzene	<0.00202	U	0.0994	0.1035		mg/Kg		104	70 - 130	7	35
m-Xylene & p-Xylene	<0.00404	U	0.199	0.1986		mg/Kg		100	70 - 130	5	35
o-Xylene	<0.00202	U	0.0994	0.09110		mg/Kg		92	70 - 130	6	35

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

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

Lab Sample ID: MB 880-54291/1-A
Matrix: Solid
Analysis Batch: 54324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 09:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 09:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 17:36	05/28/23 09:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/26/23 17:36*	*05/28/23 09:00*	*1*
o-Terphenyl	*87*		*70 - 130*	*05/26/23 17:36*	*05/28/23 09:00*	*1*

Lab Sample ID: LCS 880-54291/2-A
Matrix: Solid
Analysis Batch: 54324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1080		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1051		mg/Kg		105	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-54291/2-A
Matrix: Solid
Analysis Batch: 54324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54291

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-54291/3-A
Matrix: Solid
Analysis Batch: 54324

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54291

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1017		mg/Kg		102	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1018		mg/Kg		102	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-28859-1 MS
Matrix: Solid
Analysis Batch: 54324

Client Sample ID: S-1 (0-1.0')
Prep Type: Total/NA
Prep Batch: 54291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	990.6		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	838.0		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-28859-1 MSD
Matrix: Solid
Analysis Batch: 54324

Client Sample ID: S-1 (0-1.0')
Prep Type: Total/NA
Prep Batch: 54291

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	1042		mg/Kg		102	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	901.8		mg/Kg		85	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	87		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-54292/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54326 — **Prep Batch: 54292**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 17:40	05/28/23 09:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 17:40	05/28/23 09:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 17:40	05/28/23 09:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/26/23 17:40*	*05/28/23 09:00*	*1*
o-Terphenyl	*110*		*70 - 130*	*05/26/23 17:40*	*05/28/23 09:00*	*1*

Lab Sample ID: LCS 880-54292/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54326 — **Prep Batch: 54292**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1101		mg/Kg		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*129*		*70 - 130*

Lab Sample ID: LCSD 880-54292/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54326 — **Prep Batch: 54292**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1177		mg/Kg		118	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1119		mg/Kg		112	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*133*	*S1+*	*70 - 130*

Lab Sample ID: 880-28859-18 MS — **Client Sample ID: S-4 (4.0')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54326 — **Prep Batch: 54292**

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	998	937.6		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	992.8		mg/Kg		97	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28859-18 MS
Matrix: Solid
Analysis Batch: 54326

Client Sample ID: S-4 (4.0')
Prep Type: Total/NA
Prep Batch: 54292

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 880-28859-18 MSD
Matrix: Solid
Analysis Batch: 54326

Client Sample ID: S-4 (4.0')
Prep Type: Total/NA
Prep Batch: 54292

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	1092		mg/Kg		107	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	970.4		mg/Kg		94	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	116		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54269/1-A
Matrix: Solid
Analysis Batch: 54394

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/30/23 09:19	1

Lab Sample ID: LCS 880-54269/2-A
Matrix: Solid
Analysis Batch: 54394

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.7		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-54269/3-A
Matrix: Solid
Analysis Batch: 54394

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	245.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-28856-A-5-B MS
Matrix: Solid
Analysis Batch: 54394

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	59.7	F1	250	274.3	F1	mg/Kg		86	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-28856-A-5-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 54394

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	59.7	F1	250	274.9	F1	mg/Kg		86	90 - 110	0	20

Lab Sample ID: MB 880-54270/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 54395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/30/23 15:28	1

Lab Sample ID: LCS 880-54270/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 54395

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

Lab Sample ID: LCSD 880-54270/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 54395

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.7		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-28859-4 MS — **Client Sample ID: S-2 (0-1.0')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 54395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	57.4		248	309.4		mg/Kg		102	90 - 110

Lab Sample ID: 880-28859-4 MSD — **Client Sample ID: S-2 (0-1.0')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 54395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	57.4		248	311.9		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-28859-14 MS — **Client Sample ID: S-4 (0-1.0')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 54395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	67.9		249	310.0		mg/Kg		97	90 - 110

Lab Sample ID: 880-28859-14 MSD — **Client Sample ID: S-4 (0-1.0')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 54395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67.9		249	315.0		mg/Kg		99	90 - 110	2	20

QC Association Summary

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 54366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-1	S-1 (0-1.0')	Total/NA	Solid	5035	
880-28859-2	S-1 (1.5')	Total/NA	Solid	5035	
880-28859-3	S-1 (2.0')	Total/NA	Solid	5035	
880-28859-4	S-2 (0-1.0')	Total/NA	Solid	5035	
880-28859-5	S-2 (1.5')	Total/NA	Solid	5035	
880-28859-6	S-2 (2.0')	Total/NA	Solid	5035	
880-28859-7	S-2 (3.0')	Total/NA	Solid	5035	
880-28859-8	S-2 (4.0')	Total/NA	Solid	5035	
880-28859-9	S-2 (5.0')	Total/NA	Solid	5035	
880-28859-10	S-3 (0-1.0')	Total/NA	Solid	5035	
880-28859-11	S-3 (1.5')	Total/NA	Solid	5035	
880-28859-12	S-3 (2.0')	Total/NA	Solid	5035	
880-28859-13	S-3 (2.5')	Total/NA	Solid	5035	
880-28859-14	S-4 (0-1.0')	Total/NA	Solid	5035	
880-28859-15	S-4 (1.5')	Total/NA	Solid	5035	
880-28859-16	S-4 (2.0')	Total/NA	Solid	5035	
880-28859-17	S-4 (3.0')	Total/NA	Solid	5035	
880-28859-18	S-4 (4.0')	Total/NA	Solid	5035	
MB 880-54366/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54366/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54366/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28859-1 MS	S-1 (0-1.0')	Total/NA	Solid	5035	
880-28859-1 MSD	S-1 (0-1.0')	Total/NA	Solid	5035	

Analysis Batch: 54454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-1	S-1 (0-1.0')	Total/NA	Solid	8021B	54366
880-28859-2	S-1 (1.5')	Total/NA	Solid	8021B	54366
880-28859-3	S-1 (2.0')	Total/NA	Solid	8021B	54366
880-28859-4	S-2 (0-1.0')	Total/NA	Solid	8021B	54366
880-28859-5	S-2 (1.5')	Total/NA	Solid	8021B	54366
880-28859-6	S-2 (2.0')	Total/NA	Solid	8021B	54366
880-28859-7	S-2 (3.0')	Total/NA	Solid	8021B	54366
880-28859-8	S-2 (4.0')	Total/NA	Solid	8021B	54366
880-28859-9	S-2 (5.0')	Total/NA	Solid	8021B	54366
880-28859-10	S-3 (0-1.0')	Total/NA	Solid	8021B	54366
880-28859-11	S-3 (1.5')	Total/NA	Solid	8021B	54366
880-28859-12	S-3 (2.0')	Total/NA	Solid	8021B	54366
880-28859-13	S-3 (2.5')	Total/NA	Solid	8021B	54366
880-28859-14	S-4 (0-1.0')	Total/NA	Solid	8021B	54366
880-28859-15	S-4 (1.5')	Total/NA	Solid	8021B	54366
880-28859-16	S-4 (2.0')	Total/NA	Solid	8021B	54366
880-28859-17	S-4 (3.0')	Total/NA	Solid	8021B	54366
880-28859-18	S-4 (4.0')	Total/NA	Solid	8021B	54366
MB 880-54366/5-A	Method Blank	Total/NA	Solid	8021B	54366
LCS 880-54366/1-A	Lab Control Sample	Total/NA	Solid	8021B	54366
LCSD 880-54366/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54366
880-28859-1 MS	S-1 (0-1.0')	Total/NA	Solid	8021B	54366
880-28859-1 MSD	S-1 (0-1.0')	Total/NA	Solid	8021B	54366

QC Association Summary

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 54542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-1	S-1 (0-1.0')	Total/NA	Solid	Total BTEX	
880-28859-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-28859-3	S-1 (2.0')	Total/NA	Solid	Total BTEX	
880-28859-4	S-2 (0-1.0')	Total/NA	Solid	Total BTEX	
880-28859-5	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-28859-6	S-2 (2.0')	Total/NA	Solid	Total BTEX	
880-28859-7	S-2 (3.0')	Total/NA	Solid	Total BTEX	
880-28859-8	S-2 (4.0')	Total/NA	Solid	Total BTEX	
880-28859-9	S-2 (5.0')	Total/NA	Solid	Total BTEX	
880-28859-10	S-3 (0-1.0')	Total/NA	Solid	Total BTEX	
880-28859-11	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-28859-12	S-3 (2.0')	Total/NA	Solid	Total BTEX	
880-28859-13	S-3 (2.5')	Total/NA	Solid	Total BTEX	
880-28859-14	S-4 (0-1.0')	Total/NA	Solid	Total BTEX	
880-28859-15	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-28859-16	S-4 (2.0')	Total/NA	Solid	Total BTEX	
880-28859-17	S-4 (3.0')	Total/NA	Solid	Total BTEX	
880-28859-18	S-4 (4.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 54291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-1	S-1 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-28859-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-28859-3	S-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-28859-4	S-2 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-28859-5	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-28859-6	S-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-28859-7	S-2 (3.0')	Total/NA	Solid	8015NM Prep	
880-28859-8	S-2 (4.0')	Total/NA	Solid	8015NM Prep	
880-28859-9	S-2 (5.0')	Total/NA	Solid	8015NM Prep	
880-28859-10	S-3 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-28859-11	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-28859-12	S-3 (2.0')	Total/NA	Solid	8015NM Prep	
880-28859-13	S-3 (2.5')	Total/NA	Solid	8015NM Prep	
880-28859-14	S-4 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-28859-15	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-28859-16	S-4 (2.0')	Total/NA	Solid	8015NM Prep	
880-28859-17	S-4 (3.0')	Total/NA	Solid	8015NM Prep	
MB 880-54291/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54291/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54291/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28859-1 MS	S-1 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-28859-1 MSD	S-1 (0-1.0')	Total/NA	Solid	8015NM Prep	

Prep Batch: 54292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-18	S-4 (4.0')	Total/NA	Solid	8015NM Prep	
MB 880-54292/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54292/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 54292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-54292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28859-18 MS	S-4 (4.0')	Total/NA	Solid	8015NM Prep	
880-28859-18 MSD	S-4 (4.0')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-1	S-1 (0-1.0')	Total/NA	Solid	8015B NM	54291
880-28859-2	S-1 (1.5')	Total/NA	Solid	8015B NM	54291
880-28859-3	S-1 (2.0')	Total/NA	Solid	8015B NM	54291
880-28859-4	S-2 (0-1.0')	Total/NA	Solid	8015B NM	54291
880-28859-5	S-2 (1.5')	Total/NA	Solid	8015B NM	54291
880-28859-6	S-2 (2.0')	Total/NA	Solid	8015B NM	54291
880-28859-7	S-2 (3.0')	Total/NA	Solid	8015B NM	54291
880-28859-8	S-2 (4.0')	Total/NA	Solid	8015B NM	54291
880-28859-9	S-2 (5.0')	Total/NA	Solid	8015B NM	54291
880-28859-10	S-3 (0-1.0')	Total/NA	Solid	8015B NM	54291
880-28859-11	S-3 (1.5')	Total/NA	Solid	8015B NM	54291
880-28859-12	S-3 (2.0')	Total/NA	Solid	8015B NM	54291
880-28859-13	S-3 (2.5')	Total/NA	Solid	8015B NM	54291
880-28859-14	S-4 (0-1.0')	Total/NA	Solid	8015B NM	54291
880-28859-15	S-4 (1.5')	Total/NA	Solid	8015B NM	54291
880-28859-16	S-4 (2.0')	Total/NA	Solid	8015B NM	54291
880-28859-17	S-4 (3.0')	Total/NA	Solid	8015B NM	54291
MB 880-54291/1-A	Method Blank	Total/NA	Solid	8015B NM	54291
LCS 880-54291/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54291
LCSD 880-54291/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54291
880-28859-1 MS	S-1 (0-1.0')	Total/NA	Solid	8015B NM	54291
880-28859-1 MSD	S-1 (0-1.0')	Total/NA	Solid	8015B NM	54291

Analysis Batch: 54326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-18	S-4 (4.0')	Total/NA	Solid	8015B NM	54292
MB 880-54292/1-A	Method Blank	Total/NA	Solid	8015B NM	54292
LCS 880-54292/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54292
LCSD 880-54292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54292
880-28859-18 MS	S-4 (4.0')	Total/NA	Solid	8015B NM	54292
880-28859-18 MSD	S-4 (4.0')	Total/NA	Solid	8015B NM	54292

Analysis Batch: 54414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-1	S-1 (0-1.0')	Total/NA	Solid	8015 NM	
880-28859-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-28859-3	S-1 (2.0')	Total/NA	Solid	8015 NM	
880-28859-4	S-2 (0-1.0')	Total/NA	Solid	8015 NM	
880-28859-5	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-28859-6	S-2 (2.0')	Total/NA	Solid	8015 NM	
880-28859-7	S-2 (3.0')	Total/NA	Solid	8015 NM	
880-28859-8	S-2 (4.0')	Total/NA	Solid	8015 NM	
880-28859-9	S-2 (5.0')	Total/NA	Solid	8015 NM	
880-28859-10	S-3 (0-1.0')	Total/NA	Solid	8015 NM	
880-28859-11	S-3 (1.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 54414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-12	S-3 (2.0')	Total/NA	Solid	8015 NM	
880-28859-13	S-3 (2.5')	Total/NA	Solid	8015 NM	
880-28859-14	S-4 (0-1.0')	Total/NA	Solid	8015 NM	
880-28859-15	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-28859-16	S-4 (2.0')	Total/NA	Solid	8015 NM	
880-28859-17	S-4 (3.0')	Total/NA	Solid	8015 NM	
880-28859-18	S-4 (4.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 54269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-1	S-1 (0-1.0')	Soluble	Solid	DI Leach	
880-28859-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-28859-3	S-1 (2.0')	Soluble	Solid	DI Leach	
MB 880-54269/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54269/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54269/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28856-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28856-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 54270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-4	S-2 (0-1.0')	Soluble	Solid	DI Leach	
880-28859-5	S-2 (1.5')	Soluble	Solid	DI Leach	
880-28859-6	S-2 (2.0')	Soluble	Solid	DI Leach	
880-28859-7	S-2 (3.0')	Soluble	Solid	DI Leach	
880-28859-8	S-2 (4.0')	Soluble	Solid	DI Leach	
880-28859-9	S-2 (5.0')	Soluble	Solid	DI Leach	
880-28859-10	S-3 (0-1.0')	Soluble	Solid	DI Leach	
880-28859-11	S-3 (1.5')	Soluble	Solid	DI Leach	
880-28859-12	S-3 (2.0')	Soluble	Solid	DI Leach	
880-28859-13	S-3 (2.5')	Soluble	Solid	DI Leach	
880-28859-14	S-4 (0-1.0')	Soluble	Solid	DI Leach	
880-28859-15	S-4 (1.5')	Soluble	Solid	DI Leach	
880-28859-16	S-4 (2.0')	Soluble	Solid	DI Leach	
880-28859-17	S-4 (3.0')	Soluble	Solid	DI Leach	
880-28859-18	S-4 (4.0')	Soluble	Solid	DI Leach	
MB 880-54270/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54270/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54270/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28859-4 MS	S-2 (0-1.0')	Soluble	Solid	DI Leach	
880-28859-4 MSD	S-2 (0-1.0')	Soluble	Solid	DI Leach	
880-28859-14 MS	S-4 (0-1.0')	Soluble	Solid	DI Leach	
880-28859-14 MSD	S-4 (0-1.0')	Soluble	Solid	DI Leach	

Analysis Batch: 54394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-1	S-1 (0-1.0')	Soluble	Solid	300.0	54269
880-28859-2	S-1 (1.5')	Soluble	Solid	300.0	54269
880-28859-3	S-1 (2.0')	Soluble	Solid	300.0	54269

QC Association Summary

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 54394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54269/1-A	Method Blank	Soluble	Solid	300.0	54269
LCS 880-54269/2-A	Lab Control Sample	Soluble	Solid	300.0	54269
LCSD 880-54269/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54269
880-28856-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	54269
880-28856-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	54269

Analysis Batch: 54395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28859-4	S-2 (0-1.0')	Soluble	Solid	300.0	54270
880-28859-5	S-2 (1.5')	Soluble	Solid	300.0	54270
880-28859-6	S-2 (2.0')	Soluble	Solid	300.0	54270
880-28859-7	S-2 (3.0')	Soluble	Solid	300.0	54270
880-28859-8	S-2 (4.0')	Soluble	Solid	300.0	54270
880-28859-9	S-2 (5.0')	Soluble	Solid	300.0	54270
880-28859-10	S-3 (0-1.0')	Soluble	Solid	300.0	54270
880-28859-11	S-3 (1.5')	Soluble	Solid	300.0	54270
880-28859-12	S-3 (2.0')	Soluble	Solid	300.0	54270
880-28859-13	S-3 (2.5')	Soluble	Solid	300.0	54270
880-28859-14	S-4 (0-1.0')	Soluble	Solid	300.0	54270
880-28859-15	S-4 (1.5')	Soluble	Solid	300.0	54270
880-28859-16	S-4 (2.0')	Soluble	Solid	300.0	54270
880-28859-17	S-4 (3.0')	Soluble	Solid	300.0	54270
880-28859-18	S-4 (4.0')	Soluble	Solid	300.0	54270
MB 880-54270/1-A	Method Blank	Soluble	Solid	300.0	54270
LCS 880-54270/2-A	Lab Control Sample	Soluble	Solid	300.0	54270
LCSD 880-54270/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54270
880-28859-4 MS	S-2 (0-1.0')	Soluble	Solid	300.0	54270
880-28859-4 MSD	S-2 (0-1.0')	Soluble	Solid	300.0	54270
880-28859-14 MS	S-4 (0-1.0')	Soluble	Solid	300.0	54270
880-28859-14 MSD	S-4 (0-1.0')	Soluble	Solid	300.0	54270

Lab Chronicle

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1.0')

Lab Sample ID: 880-28859-1
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 13:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 11:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54394	05/30/23 11:49	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-28859-2
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 12:50	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54394	05/30/23 11:54	CH	EET MID

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-28859-3
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 13:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 13:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54394	05/30/23 12:00	CH	EET MID

Client Sample ID: S-2 (0-1.0')

Lab Sample ID: 880-28859-4
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (0-1.0')

Lab Sample ID: 880-28859-4
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 13:35	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 15:44	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-28859-5
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 14:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 13:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 16:00	CH	EET MID

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-28859-6
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 14:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 14:22	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 16:06	CH	EET MID

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-28859-7
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 15:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 14:45	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-28859-7
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 16:11	CH	EET MID

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-28859-8
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 15:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 15:08	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 16:17	CH	EET MID

Client Sample ID: S-2 (5.0')

Lab Sample ID: 880-28859-9
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 15:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 15:31	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 16:33	CH	EET MID

Client Sample ID: S-3 (0-1.0')

Lab Sample ID: 880-28859-10
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 16:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 15:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 16:38	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-28859-11
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 18:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 16:41	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 16:43	CH	EET MID

Client Sample ID: S-3 (2.0')

Lab Sample ID: 880-28859-12
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 17:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 16:49	CH	EET MID

Client Sample ID: S-3 (2.5')

Lab Sample ID: 880-28859-13
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 18:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 17:29	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 16:54	CH	EET MID

Client Sample ID: S-4 (0-1.0')

Lab Sample ID: 880-28859-14
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 19:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (0-1.0')

Lab Sample ID: 880-28859-14
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 17:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 17:05	CH	EET MID

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-28859-15
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 18:16	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 17:27	CH	EET MID

Client Sample ID: S-4 (2.0')

Lab Sample ID: 880-28859-16
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 19:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 18:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 17:33	CH	EET MID

Client Sample ID: S-4 (3.0')

Lab Sample ID: 880-28859-17
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 20:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54291	05/26/23 17:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54324	05/28/23 19:03	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (3.0')

Lab Sample ID: 880-28859-17
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 17:49	CH	EET MID

Client Sample ID: S-4 (4.0')

Lab Sample ID: 880-28859-18
Matrix: Solid
Date Collected: 05/23/23 00:00
Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54366	05/30/23 09:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54454	05/31/23 20:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54542	06/01/23 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54414	05/30/23 15:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54292	05/26/23 17:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54326	05/28/23 11:40	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54270	05/26/23 16:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54395	05/30/23 17:54	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: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

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	T104704400-22-25	06-30-23

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: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

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: Tusk Fed 4H (3.30.23)

Job ID: 880-28859-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28859-1	S-1 (0-1.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-2	S-1 (1.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-3	S-1 (2.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-4	S-2 (0-1.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-5	S-2 (1.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-6	S-2 (2.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-7	S-2 (3.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-8	S-2 (4.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-9	S-2 (5.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-10	S-3 (0-1.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-11	S-3 (1.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-12	S-3 (2.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-13	S-3 (2.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-14	S-4 (0-1.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-15	S-4 (1.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-16	S-4 (2.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-17	S-4 (3.0')	Solid	05/23/23 00:00	05/26/23 13:04
880-28859-18	S-4 (4.0')	Solid	05/23/23 00:00	05/26/23 13:04

Work Order No: 28859

Page 1 of 2

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

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Tusk Fed 4H (3 30 23)	Turn Around	
Project Number	2036	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date	72 Hrs
Sampler's Name	KB		
PO #:			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice.	(Yes) No
Received Intact.	(Yes) No	Thermometer ID	IR6
Cooler Custody Seals	Yes No ~~N/A~~	Correction Factor	-0.3
Sample Custody Seals	Yes No ~~N/A~~	Temperature Reading	1.4
Total Containers		Corrected Temperature	1.1

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-1 (0-1 0')	5/23/2023		X		G	1	X	X	X	
S-1 (1 5')	5/23/2023		X		G	1	X	X	X	
S-1 (2 0')	5/23/2023		X		G	1	X	X	X	
S-2 (0-1 0')	5/23/2023		X		G	1	X	X	X	
S-2 (1 5')	5/23/2023		X		G	1	X	X	X	
S-2 (2 0')	5/23/2023		X		G	1	X	X	X	
S-2 (3 0')	5/23/2023		X		G	1	X	X	X	
S-2 (4 0')	5/23/2023		X		G	1	X	X	X	
S-2 (5 0')	5/23/2023		X		G	1	X	X	X	
S-3 (0-1 0')	5/23/2023		X		G	1	X	X	X	

880-28859 Chain of Custody

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	5/26 - 1:04		

Work Order No: 28859

6/1/2023

Page 2 of 2

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

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Tusk Fed 4H (3 30 23)	Turn Around	
Project Number	2036	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date	72 Hrs
Sampler's Name	KB		
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes No	Wet Ice	Yes No	
Received Intact:	Yes No	Thermometer ID	IR6	
Cooler Custody Seals	Yes No N/A	Correction Factor	-0.3	
Sample Custody Seals	Yes No N/A	Temperature Reading	1.4	
Total Containers		Corrected Temperature	1.1	

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-3 (1 5')	5/23/2023		X		G	1		X	X	X	
S-3 (2 0')	5/23/2023		X		G	1		X	X	X	
S-3 (2 5')	5/23/2023		X		G	1		X	X	X	
S-4 (0-1 0')	5/23/2023		X		G	1		X	X	X	
S-4 (1 5')	5/23/2023		X		G	1		X	X	X	
S-4 (2 0')	5/23/2023		X		G	1		X	X	X	
S-4 (3 0')	5/23/2023		X		G	1		X	X	X	
S-4 (4 0')	5/23/2023		X		G	1		X	X	X	

Loc: 880
28859

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	5/26 - 1:04pm		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-28859-1
SDG Number: Lea County, New Mexico

Login Number: 28859
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	

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

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 234971
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	9/22/2023