

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Estill AD Federal #003
Incident ID: nMLB0529948706
Eddy County, New Mexico
Unit J Sec 19 T24S R26E
32.199543°, -104.3302765°

Brine Water Release
Point of Release: Brine Water Tank Collapse
Release Date: 10/03/2005
Volume Released: 500 Barrels of Brine Water
Volume Recovered: 0 Barrels of Brine Water

CARMONA RESOURCES



Prepared for:
Cimarex Energy Co. of Colorado
6000 Deauville Blvd.
Suite 300N
Midland, Texas 79706

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

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



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May 25, 2023

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

Re: Closure Report
Estill AD Federal #003
Cimarex Energy Co. of Colorado
Site Location: Unit J, S19, T24S, R26E
(Lat 32.199543°, Long -104.3302765°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Estill AD Federal #003. The site is located at 32.199543°, -104.3302765° within Unit J, S19, T24S, R26E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on October 3, 2005, caused by a brine water tank collapse. It resulted in approximately five hundred (500) barrels of brine water being released, and zero (0) barrels of brine water were recovered. The impacted area is located on the pad and is shown in Figure 3. The initial C-141 form is attached in Appendix C. This site has been reclaimed.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source is within a 0.50-mile radius of the location. The nearest identified well is approximately 0.51 miles Northeast of the site in S20, T24S, R26E and was drilled in 1983. The well has a reported depth to groundwater of 70' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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



4.0 Site Assessment Activities

On December 21, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, eight (8) sample points and eight (8) horizontal sample points were advanced to depths ranging from the surface to 2' bgs inside the area of concern. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Additional Sampling

On May 10, 2023, a third-party environmental consultant performed additional site assessment activities to evaluate deeper soil impacts per request of the OCD. The OCD requested two soil bores to be advanced to a depth of 10' near S-4 and near the point of release, S-6. Boreholes (BH-1 and BH-2) were advanced to depths ranging from surface to 10' bgs. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Appendix C for communication from the OCD.

All samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 1.

5.0 Conclusion

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

Sincerely,

Carmona Resources, LLC

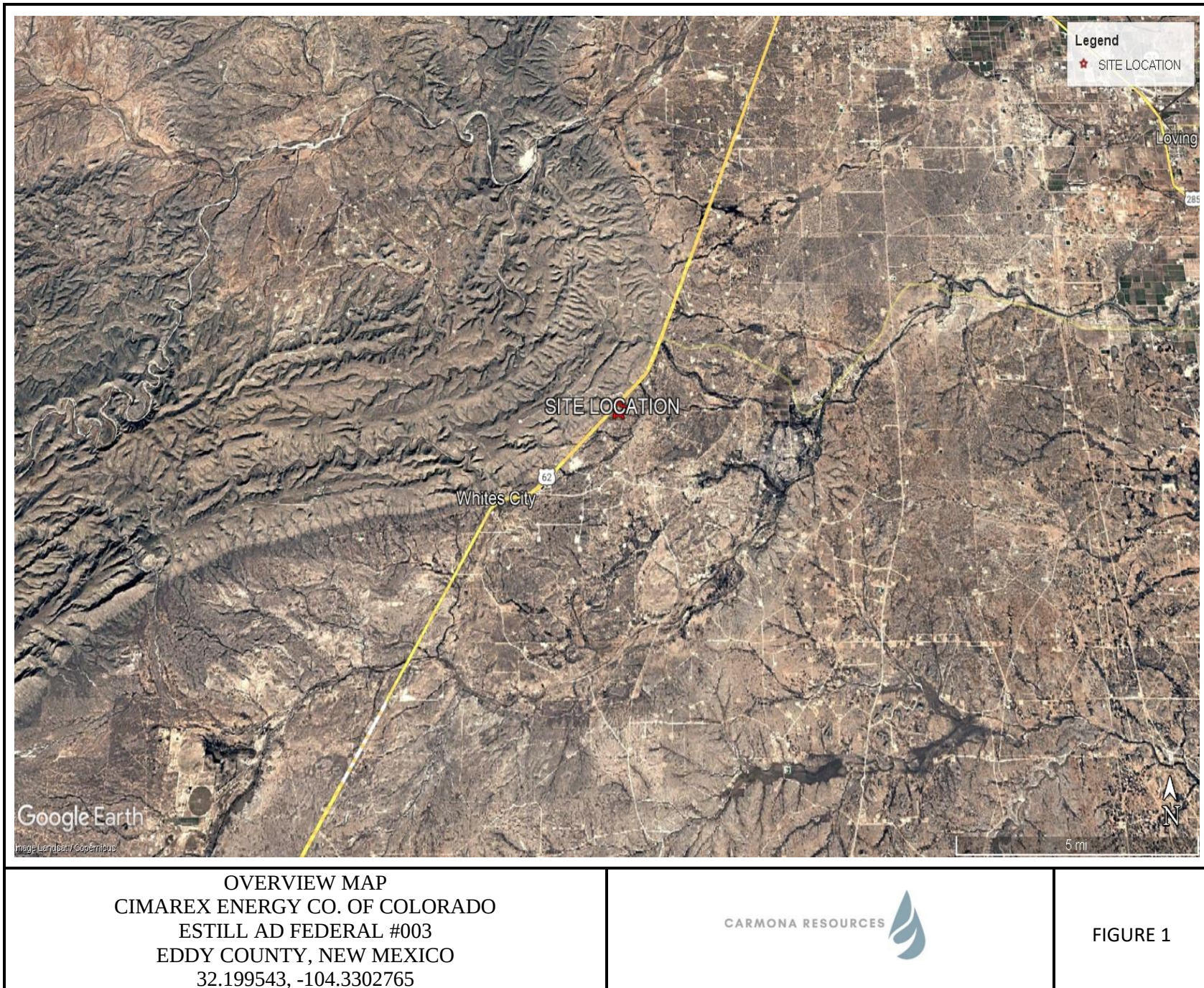
Mike Carmona
Environmental Manager

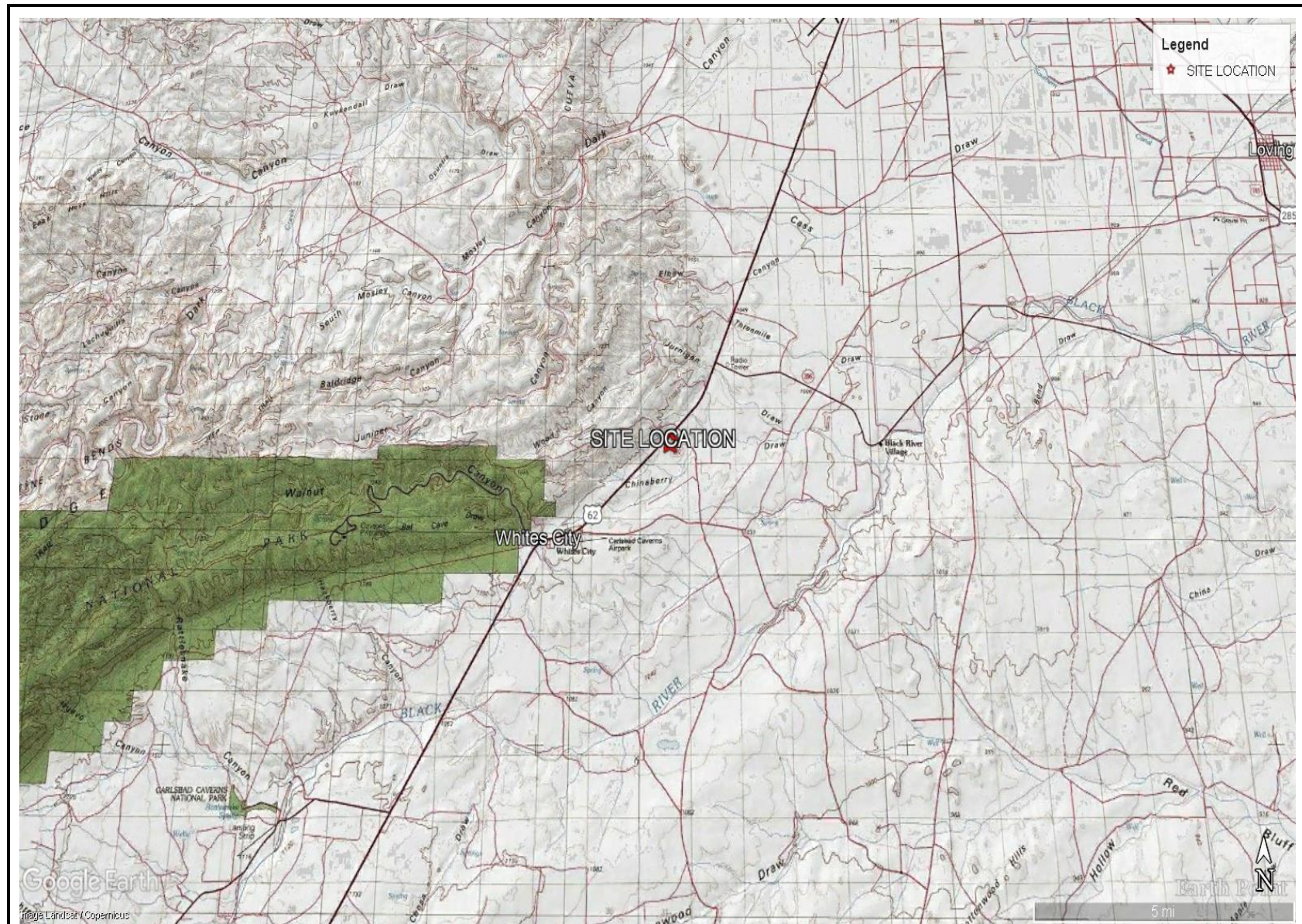
Ashton Thielke
Sr. Project Manager

FIGURES

CARMONA RESOURCES







TOPOGRAPHIC MAP
 CIMAREX ENERGY CO. OF COLORADO
 ESTILL AD FEDERAL #003
 EDDY COUNTY, NEW MEXICO
 32.199543, -104.3302765



FIGURE 2



SAMPLE LOCATION MAP
 CIMAREX ENERGY CO. OF COLORADO
 ESTILL AD FEDERAL #003
 EDDY COUNTY, NEW MEXICO
 32.199543, -104.3302765



FIGURE 3

APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex
Estill AD Federal #003
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	
			GRO	DRO	MRO	Total							
S-1	12/21/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	7.16	
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.89	
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.91	
S-2	12/21/2022	0-1	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	289	
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.00	
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<5.00	
S-3	12/21/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.37	
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.1	
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	50.0	
S-4	12/21/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	60.4	
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.04	
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.97	
BH-1	5/10/2023	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	58.9	
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	152	
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	226	
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	230	
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	171	
	"	6.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	67.8	
	"	7.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	66.9	
	"	8.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	53.9	
	"	9.0	<50.0	<50.0	<50.0	<50.0	<0.00202	0.00428	<0.00202	<0.00404	0.00428	43.3	
"	10.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	43.9		
S-5	12/21/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	7.66	
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	5.76	
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	9.09	
S-6	12/21/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<4.97	
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	313	
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	304	
BH-2	5/10/2023	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	57.6	
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	167	
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	116	
	"	4.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	109	
	"	5.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	58.9	
	"	6.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	47.6	
	"	7.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	51.8	
	"	8.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	41.9	
	"	9.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	38.0	
"	10.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	43.9		
S-7	12/21/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	259	
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	315	
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	383	
S-8	12/21/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	337	
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	284	
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	301	
Regulatory Criteria ^A							100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft - feet

(S) - Sample Point

(BH) - Borehole Sample

Table 1
Cimarex
Estill AD Federal #003
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	12/21/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99
H-2	12/21/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.01
H-3	12/21/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<5.00
H-4	12/21/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.02
H-5	12/21/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.01
H-6	12/21/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.00
H-7	12/21/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<5.00
H-8	12/21/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	35.5
Regulatory Criteria ^A						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft - feet

(H) - Horizontal Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG**Cimarex Energy Co. of Colorado****Photograph No. 1****Facility:** Estill AD Federal #003**County:** Eddy County, New Mexico**Description:**

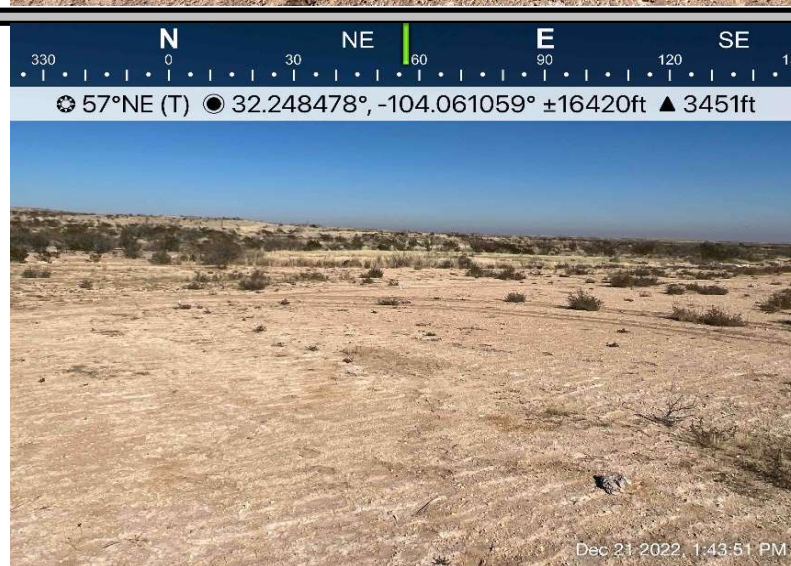
View Southwest of reclaimed area.

**Photograph No. 2****Facility:** Estill AD Federal #003**County:** Eddy County, New Mexico**Description:**

View West of reclaimed area.

**Photograph No. 3****Facility:** Estill AD Federal #003**County:** Eddy County, New Mexico**Description:**

View Northeast of reclaimed area.



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 4

Facility: Estill AD Federal #003

County: Eddy County, New Mexico

Description:

View South of reclaimed area.



Photograph No. 5

Facility: Estill AD Federal #003

County: Eddy County, New Mexico

Description:

View South of BH-1/S-4.



Photograph No. 6

Facility: Estill AD Federal #003

County: Eddy County, New Mexico

Description:

View South of BH-2/S-6.



APPENDIX C

CARMONA RESOURCES



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

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

30-015-34162

Release Notification and Corrective Action

n MCB0529948706

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Gruy Petroleum Management Co. 162683	Contact	Zeno Farris
Address	P.O. Box 140907, Irving TX 75014	Telephone No.	972-401-3111
Facility Name	Estill AD Federal No. 3	Facility Type	Drilling Well

Surface Owner	Bureau of Land Management	Mineral Owner	Minerals Management Service	Lease No.	LC-065357
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	19	24S	26E	1470	South	1939	East	Eddy

Latitude 321157.92N Longitude 1041947.14W

NATURE OF RELEASE

Type of Release	Brine Water	Volume of Release	300-500 bbl	Volume Recovered	0
Source of Release	Brine Water / Frac Tank	Date and Hour of Occurrence	2-3pm	Date and Hour of Discovery	930am
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	10-03-05		10-03-05
By Whom?	Dorsey Rogers	Date and Hour	930am 10-03-05		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

RECEIVED

OCT 17 2005

OCD-AM/ESLA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Brine water tank collapsed, spilling 300-500 bbl of brine water. Still determining cause of collapse. Brine tanks no longer kept on location.

Describe Area Affected and Cleanup Action Taken.* Spill ran north by northeast 540', 12-100' wide to Chevron's Estill AD Fed 1 well pad. Set berm at end of spill. Will determine remediation plan based on State and Federal recommendations.

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

Signature: <i>Zeno Farris</i>	OIL CONSERVATION DIVISION TIM GUM by MB	
Printed Name: Zeno Farris	Approved by District Supervisor: <i>Mike Benavente</i>	
Title: Manager, Operations Administration	Approval Date: 10/26/05	Expiration Date: N/A
E-mail Address: zfarris@cimarex.com	Conditions of Approval:	Attached ☒
Date: 10-10-05	Phone: 972-443-6489	

* Attach Additional Sheets If Necessary



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

Gruy Petroleum Management Co.
PO Box 140907
Irving TX 75014

October 26, 2005

Re: Estill AD Federal 003

J-19-24s-26e

API: 30-015-34162

The New Mexico Oil Conservation Division District II Office is in receipt of an Initial Report C-141 reporting a produced fluids release that occurred on 10/3/2005 at or near the above referenced well site.

Please submit a Corrective Action Work Plan to this office for correction/remediation of this release. Please use the "Guidelines For Remediation of Leaks, Spills, and Releases" as your guide.

This document may be found on the NMOCD web site: www.emnrd.state.nm.us/ocd, under Publications/Environmental Handbook/Miscellaneous Guidelines/Spill Prevention Clean up.

The work plan presented to the NMOCD must include general site characteristics, site ranking score, soil remediation action levels, soil remediation methods, and planned analytical testing for TPH, B-TEX, Chlorides or any other CoCs as applicable.

A Final Report Form C-141 is required to be submitted upon satisfactory completion of project, and must include a report of remediation actions taken with final confirmation sample analysis results attached.

Like approval by BLM required if applicable.

Please have the requested work plan in the Artesia office on or before November 23, 2005. The NMOCD District II Office must be notified 24 hours prior to commencement of remediation actions and prior to samples being obtained where analysis of such samples are to be submitted to the OCD.

In the event that a satisfactory response is not received to this letter further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe. Such a hearing may result in imposition of **CIVIL PENALTIES** for your violation of NMOCD rules.

If I can be of assistance in this matter, my contact information is listed below.

Mike Bratcher

NMOCD District 2

1301 W. Grand Ave.

Artesia, NM 88210

(505) 748-1283 Ext. 108

(505) 626-0857

mbratcher@state.nm.com

NMOCD Incident Number: nMLB0529948706

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

Page 4

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: *Dac. Lij* Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

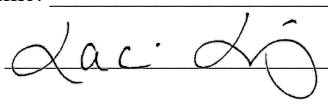
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

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

Printed Name: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Ashton Thielke

From: Laci Luig
Sent: Wednesday, May 3, 2023 11:09 AM
To: Ashton Thielke
Subject: Fwd: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 179232

Laci Luig
(432) 208-3035

Begin forwarded message:

From: OCDOnline@state.nm.us
Date: May 3, 2023 at 10:31:09 AM CDT
To: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 179232

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

To whom it may concern (c/o Laci Luig for CIMAREX ENERGY CO. OF COLORADO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nMLB0529948706, for the following reasons:

- **The Closure Report is Denied. This is an old legacy release that occurred in October 2005. Sampling to a depth of 2 feet is not sufficient to verify chlorides. A 500-barrel release and 0 barrels recovered is a very large release and needs to be explored more thoroughly. Chlorides most likely moved down the soil column over the years. The OCD requests two boreholes be advanced in the release area in 1-foot increments down to a depth of 10 feet. The first borehole should be advanced near the point of release and the second should be advanced near soil sample location S-4.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 179232.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

APPENDIX D

CARMONA RESOURCES



Nearest water well

Cimarex Energy Co. of Colorado

Legend

 0.50 Mile Radius

 0.51 Miles

 0.82 Miles

 0.83 Miles

 Estill AD Federal #003 (10.03.2005)

 NMSEO Water Well

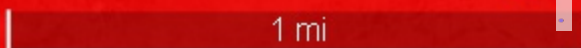


High Karst
Cimarex Energy Co. of Colorado

Legend

-  Estill AD Federal #003 (10.03.2005)
-  High
-  Medium

 Estill AD Federal #003 (10.03.2005)


 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-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01454	C	ED		1	3	20	24S	26E		563917	3562912*	811	87	70	17
C 01202	C	ED			1	29	24S	26E		564138	3561903*	1322	75	19	56
C 01386	C	ED		3	1	29	24S	26E		563937	3561702*	1327	84	72	12
C 04270 POD2	CUB	ED		1	4	1	20	26S	26E	564309	3563438	1372	59		
C 02700	C	ED		1	1	3	29	24S	26E	563844	3561400*	1530	180		
C 00957	C	ED			1	4	18	24S	26E	563106	3564511*	1761	753	650	103
C 00860	C	ED				25	24S	25E		561331	3561486*	2192	700	540	160
C 02027	C	ED			4	2	13	24S	25E	561910	3564888*	2457	350	163	187
C 00669	C	ED		2	4	3	07	24S	26E	562799	3565796*	3063	330	250	80

Average Depth to Water: **252 feet**

Minimum Depth: **19 feet**

Maximum Depth: **650 feet**

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 563122

Northing (Y): 3562750

Radius: 4000

*UTM location was derived from PLSS - see Help

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

12/20/22 7:29 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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		
C	01454		1	3	20	24S	26E	563917	3562912*		
Driller License: 969		Driller Company:				MAGBY, EDGAR W. & BRAD					
Driller Name:		MAGBY, BRAD									
Drill Start Date: 09/03/1983		Drill Finish Date:				09/05/1983		Plug Date:			
Log File Date: 09/13/1983		PCW Rev Date:				Source:				Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:				10 GPM	
Casing Size: 8.00		Depth Well:				87 feet		Depth Water:		70 feet	
		Water Bearing Stratifications:				Top	Bottom	Description			
						50	60	Shale/Mudstone/Siltstone			
						68	75	Sandstone/Gravel/Conglomerate			

*UTM location was derived from PLSS - see Help

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

12/20/22 7:30 AM

POINT OF DIVERSION SUMMARY



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
C	01202			1	29	24S	26E	564138	3561903*
Driller License: 30		Driller Company:		BARRON, EMMETT					
Driller Name:		BARRON, EMMETT							
Drill Start Date: 06/24/1964		Drill Finish Date:		06/27/1964		Plug Date:			
Log File Date: 09/08/1964		PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 7.00		Depth Well:		75 feet		Depth Water:		19 feet	
Water Bearing Stratifications:		Top	Bottom	Description					
		68	70	Other/Unknown					

*UTM location was derived from PLSS - see Help

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

12/20/22 7:32 AM

POINT OF DIVERSION SUMMARY



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
C	01386	3	1	29	24S	26E	563937	3561702*	

x

Driller License: 30

Driller Company: BARRON, EMMETT

Driller Name: BARRON, EMMETT

Drill Start Date: 07/25/1968

Drill Finish Date: 07/30/1968

Plug Date:

Log File Date: 09/03/1968

PCW Rev Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well: 84 feet

Depth Water: 72 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	82	84	Other/Unknown

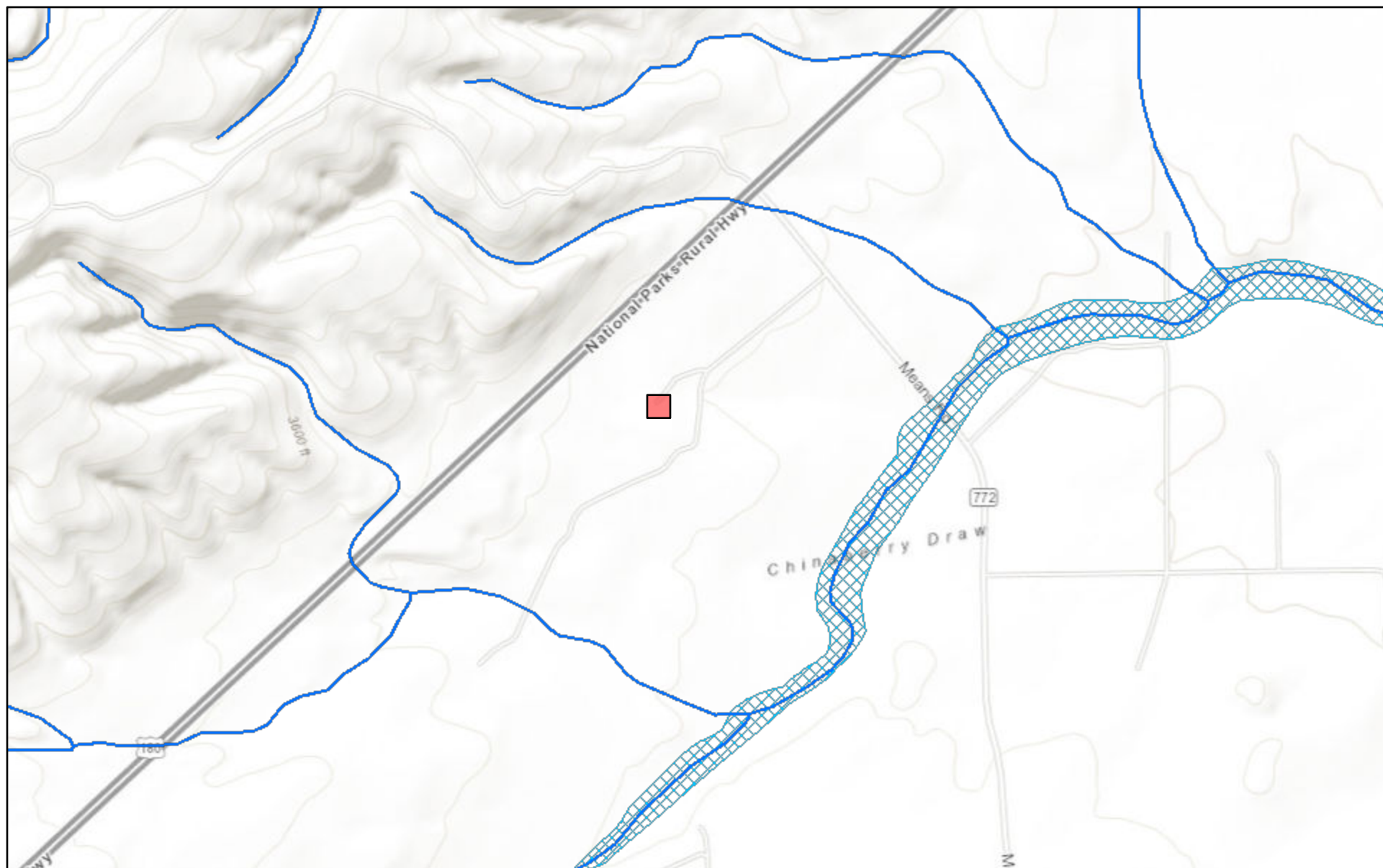
*UTM location was derived from PLSS - see Help

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

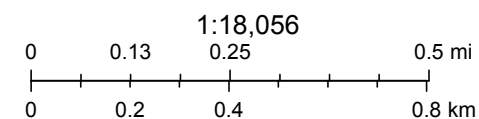
12/20/22 7:33 AM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



December 20, 2022



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

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

APPENDIX E

CARMONA RESOURCES





Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 1/3/2023 11:13:06 AM

JOB DESCRIPTION

Estill AD Federal #003 (10.03.2005)
SDG NUMBER Eddy Co, NM

JOB NUMBER

880-23044-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization



Generated
1/3/2023 11:13:06 AM

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

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Laboratory Job ID: 880-23044-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

Job ID: 880-23044-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-23044-1****Receipt**

The samples were received on 12/22/2022 1:34 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 0.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-23044-1), H-2 (0-0.5') (880-23044-2), H-3 (0-0.5') (880-23044-3), H-4 (0-0.5') (880-23044-4), H-5 (0-0.5') (880-23044-5), H-6 (0-0.5') (880-23044-6), H-7 (0-0.5') (880-23044-7) and H-8 (0-0.5') (880-23044-8).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-5 (0-0.5') (880-23044-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-42814 and analytical batch 880-42922 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-6 (0-0.5') (880-23044-6), H-7 (0-0.5') (880-23044-7), H-8 (0-0.5') (880-23044-8), (CCV 880-42922/51), (CCV 880-42922/64), (LCS 880-42814/1-A), (LCSD 880-42814/2-A), (MB 880-42814/5-A), (890-3704-A-1-F), (890-3704-A-1-D MS) and (890-3704-A-1-E MSD). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-42738 and analytical batch 880-42636 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23044-1

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 18:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 18:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 18:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:22	12/29/22 18:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 18:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:22	12/29/22 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/28/22 14:22	12/29/22 18:17	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/28/22 14:22	12/29/22 18:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/30/22 13:02	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			12/28/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	12/27/22 15:03	12/28/22 03:54	1
o-Terphenyl	106		70 - 130	12/27/22 15:03	12/28/22 03:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			12/30/22 11:19	1

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

Lab Sample ID: 880-23044-2

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:22	12/29/22 18:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:22	12/29/22 18:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:22	12/29/22 18:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/28/22 14:22	12/29/22 18:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/28/22 14:22	12/29/22 18:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/28/22 14:22	12/29/22 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/28/22 14:22	12/29/22 18:37	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/28/22 14:22	12/29/22 18:37	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23044-2

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/30/22 13:02	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			12/28/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/22 15:03	12/28/22 04:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		12/27/22 15:03	12/28/22 04:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/22 15:03	12/28/22 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				12/27/22 15:03	12/28/22 04:15	1
o-Terphenyl	90		70 - 130				12/27/22 15:03	12/28/22 04:15	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			12/30/22 11:24	1

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

Lab Sample ID: 880-23044-3

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 18:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 18:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 18:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/28/22 14:22	12/29/22 18:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 18:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/28/22 14:22	12/29/22 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				12/28/22 14:22	12/29/22 18:58	1
1,4-Difluorobenzene (Surr)	82		70 - 130				12/28/22 14:22	12/29/22 18:58	1

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			12/30/22 13:02	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			12/28/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 04:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		12/27/22 15:03	12/28/22 04:36	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23044-3

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				12/27/22 15:03	12/28/22 04:36	1
o-Terphenyl	103		70 - 130				12/27/22 15:03	12/28/22 04:36	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/30/22 11:29	1

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

Lab Sample ID: 880-23044-4

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 19:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 19:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 19:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:22	12/29/22 19:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 19:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:22	12/29/22 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				12/28/22 14:22	12/29/22 19:19	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/28/22 14:22	12/29/22 19:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/30/22 13:02	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			12/28/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 04:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		12/27/22 15:03	12/28/22 04:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				12/27/22 15:03	12/28/22 04:56	1
o-Terphenyl	100		70 - 130				12/27/22 15:03	12/28/22 04:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			12/30/22 04:23	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23044-5

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 19:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 19:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 19:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/28/22 14:22	12/29/22 19:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/22 14:22	12/29/22 19:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/22 14:22	12/29/22 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	12/28/22 14:22	12/29/22 19:39	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/28/22 14:22	12/29/22 19:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/30/22 13:02	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			12/28/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 05:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		12/27/22 15:03	12/28/22 05:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	12/27/22 15:03	12/28/22 05:17	1
o-Terphenyl	102		70 - 130	12/27/22 15:03	12/28/22 05:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			12/30/22 04:28	1

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

Lab Sample ID: 880-23044-6

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U * *1	0.00201		mg/Kg		12/28/22 14:51	12/31/22 11:15	1
Toluene	<0.00201	U * *1	0.00201		mg/Kg		12/28/22 14:51	12/31/22 11:15	1
Ethylbenzene	<0.00201	U *1	0.00201		mg/Kg		12/28/22 14:51	12/31/22 11:15	1
m-Xylene & p-Xylene	<0.00402	U *1	0.00402		mg/Kg		12/28/22 14:51	12/31/22 11:15	1
o-Xylene	<0.00201	U *1	0.00201		mg/Kg		12/28/22 14:51	12/31/22 11:15	1
Xylenes, Total	<0.00402	U *1	0.00402		mg/Kg		12/28/22 14:51	12/31/22 11:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	209	S1+	70 - 130	12/28/22 14:51	12/31/22 11:15	1
1,4-Difluorobenzene (Surr)	71		70 - 130	12/28/22 14:51	12/31/22 11:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23044-6

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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			01/03/23 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/28/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/22 15:03	12/28/22 05:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		12/27/22 15:03	12/28/22 05:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/22 15:03	12/28/22 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				12/27/22 15:03	12/28/22 05:38	1
o-Terphenyl	99		70 - 130				12/27/22 15:03	12/28/22 05:38	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/30/22 04:33	1

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-23044-7

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U * *	0.00200		mg/Kg		12/28/22 14:51	12/31/22 11:43	1
Toluene	<0.00200	U * *	0.00200		mg/Kg		12/28/22 14:51	12/31/22 11:43	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		12/28/22 14:51	12/31/22 11:43	1
m-Xylene & p-Xylene	<0.00401	U *	0.00401		mg/Kg		12/28/22 14:51	12/31/22 11:43	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		12/28/22 14:51	12/31/22 11:43	1
Xylenes, Total	<0.00401	U *	0.00401		mg/Kg		12/28/22 14:51	12/31/22 11:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	209	S1+	70 - 130				12/28/22 14:51	12/31/22 11:43	1
1,4-Difluorobenzene (Surr)	78		70 - 130				12/28/22 14:51	12/31/22 11:43	1

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			01/03/23 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/28/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/22 15:03	12/28/22 05:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		12/27/22 15:03	12/28/22 05:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-23044-7

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/22 15:03	12/28/22 05:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				12/27/22 15:03	12/28/22 05:59	1
o-Terphenyl	105		70 - 130				12/27/22 15:03	12/28/22 05:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/30/22 11:33	1

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-23044-8

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U * *1	0.00199		mg/Kg		12/28/22 14:51	12/31/22 12:10	1
Toluene	<0.00199	U * *1	0.00199		mg/Kg		12/28/22 14:51	12/31/22 12:10	1
Ethylbenzene	<0.00199	U *1	0.00199		mg/Kg		12/28/22 14:51	12/31/22 12:10	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398		mg/Kg		12/28/22 14:51	12/31/22 12:10	1
o-Xylene	<0.00199	U *1	0.00199		mg/Kg		12/28/22 14:51	12/31/22 12:10	1
Xylenes, Total	<0.00398	U *1	0.00398		mg/Kg		12/28/22 14:51	12/31/22 12:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	184	S1+	70 - 130				12/28/22 14:51	12/31/22 12:10	1
1,4-Difluorobenzene (Surr)	71		70 - 130				12/28/22 14:51	12/31/22 12:10	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			01/03/23 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/28/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 06:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		12/27/22 15:03	12/28/22 06:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/28/22 06:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				12/27/22 15:03	12/28/22 06:19	1
o-Terphenyl	100		70 - 130				12/27/22 15:03	12/28/22 06:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.5		5.02		mg/Kg			12/30/22 11:48	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-23040-A-1-G MS	Matrix Spike	125	86
880-23040-A-1-H MSD	Matrix Spike Duplicate	129	88
880-23044-1	H-1 (0-0.5')	117	84
880-23044-2	H-2 (0-0.5')	127	92
880-23044-3	H-3 (0-0.5')	125	82
880-23044-4	H-4 (0-0.5')	124	94
880-23044-5	H-5 (0-0.5')	133 S1+	96
880-23044-6	H-6 (0-0.5')	209 S1+	71
880-23044-7	H-7 (0-0.5')	209 S1+	78
880-23044-8	H-8 (0-0.5')	184 S1+	71
890-3704-A-1-D MS	Matrix Spike	210 S1+	66 S1-
890-3704-A-1-E MSD	Matrix Spike Duplicate	200 S1+	73
LCS 880-42811/1-A	Lab Control Sample	110	94
LCS 880-42814/1-A	Lab Control Sample	210 S1+	84
LCSD 880-42811/2-A	Lab Control Sample Dup	112	94
LCSD 880-42814/2-A	Lab Control Sample Dup	177 S1+	69 S1-
MB 880-42759/5-A	Method Blank	133 S1+	68 S1-
MB 880-42811/5-A	Method Blank	102	86
MB 880-42814/5-A	Method Blank	142 S1+	68 S1-
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)
880-23044-1	H-1 (0-0.5')	106	106
880-23044-2	H-2 (0-0.5')	89	90
880-23044-3	H-3 (0-0.5')	101	103
880-23044-4	H-4 (0-0.5')	99	100
880-23044-5	H-5 (0-0.5')	99	102
880-23044-6	H-6 (0-0.5')	97	99
880-23044-7	H-7 (0-0.5')	103	105
880-23044-8	H-8 (0-0.5')	97	100
890-3702-A-10-D MS	Matrix Spike	104	95
890-3702-A-10-E MSD	Matrix Spike Duplicate	89	81
LCS 880-42738/2-A	Lab Control Sample	87	92
LCSD 880-42738/3-A	Lab Control Sample Dup	92	99
MB 880-42738/1-A	Method Blank	89	92
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42759/5-A

Matrix: Solid

Analysis Batch: 42922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 16:57	12/30/22 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 16:57	12/30/22 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/22 16:57	12/30/22 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/22 16:57	12/30/22 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/22 16:57	12/30/22 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/22 16:57	12/30/22 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	12/27/22 16:57	12/30/22 11:33	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	12/27/22 16:57	12/30/22 11:33	1

Lab Sample ID: MB 880-42811/5-A

Matrix: Solid

Analysis Batch: 42860

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 13:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 13:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 13:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/28/22 14:22	12/29/22 13:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 13:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/28/22 14:22	12/29/22 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	12/28/22 14:22	12/29/22 13:26	1
1,4-Difluorobenzene (Surr)	86		70 - 130	12/28/22 14:22	12/29/22 13:26	1

Lab Sample ID: LCS 880-42811/1-A

Matrix: Solid

Analysis Batch: 42860

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1138		mg/Kg		114	70 - 130
Toluene	0.100	0.1117		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1082		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2367		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1166		mg/Kg		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-42811/2-A

Matrix: Solid

Analysis Batch: 42860

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42811

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1164		mg/Kg		116	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-42811/2-A

Matrix: Solid

Analysis Batch: 42860

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42811

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1138		mg/Kg		114	70 - 130	2	35
Ethylbenzene	0.100	0.1118		mg/Kg		112	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2496		mg/Kg		125	70 - 130	5	35
o-Xylene	0.100	0.1228		mg/Kg		123	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-23040-A-1-G MS

Matrix: Solid

Analysis Batch: 42860

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.07419		mg/Kg		74	70 - 130
Toluene	<0.00201	U	0.101	0.08714		mg/Kg		86	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.09720		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2176		mg/Kg		108	70 - 130
o-Xylene	<0.00201	U	0.101	0.1077		mg/Kg		107	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-23040-A-1-H MSD

Matrix: Solid

Analysis Batch: 42860

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.08003		mg/Kg		81	70 - 130	8	35
Toluene	<0.00201	U	0.0990	0.09088		mg/Kg		92	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.0990	0.09840		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2218		mg/Kg		112	70 - 130	2	35
o-Xylene	<0.00201	U	0.0990	0.1102		mg/Kg		111	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-42814/5-A

Matrix: Solid

Analysis Batch: 42922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:51	12/31/22 01:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:51	12/31/22 01:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:51	12/31/22 01:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/28/22 14:51	12/31/22 01:50	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-42814/5-A

Matrix: Solid

Analysis Batch: 42922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:51	12/31/22 01:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/28/22 14:51	12/31/22 01:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	12/28/22 14:51	12/31/22 01:50	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	12/28/22 14:51	12/31/22 01:50	1

Lab Sample ID: LCS 880-42814/1-A

Matrix: Solid

Analysis Batch: 42922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1222		mg/Kg		122	70 - 130
Toluene	0.100	0.1041		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1187		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2383		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1218		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	210	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-42814/2-A

Matrix: Solid

Analysis Batch: 42922

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42814

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.06553	*- *1	mg/Kg		66	70 - 130	60	35
Toluene	0.100	0.06581	*- *1	mg/Kg		66	70 - 130	45	35
Ethylbenzene	0.100	0.07591	*1	mg/Kg		76	70 - 130	44	35
m-Xylene & p-Xylene	0.200	0.1604	*1	mg/Kg		80	70 - 130	39	35
o-Xylene	0.100	0.08218	*1	mg/Kg		82	70 - 130	39	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	177	S1+	70 - 130
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130

Lab Sample ID: 890-3704-A-1-D MS

Matrix: Solid

Analysis Batch: 42922

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U *- *1	0.0998	0.08676		mg/Kg		87	70 - 130
Toluene	<0.00200	U *- *1	0.0998	0.08652		mg/Kg		87	70 - 130
Ethylbenzene	<0.00200	U *1	0.0998	0.1004		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00401	U *1	0.200	0.2001		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U *1	0.0998	0.1037		mg/Kg		104	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-3704-A-1-D MS

Matrix: Solid

Analysis Batch: 42922

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42814

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	210	S1+	70 - 130
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130

Lab Sample ID: 890-3704-A-1-E MSD

Matrix: Solid

Analysis Batch: 42922

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U *- *1	0.0996	0.08425		mg/Kg		85	70 - 130	3	35
Toluene	<0.00200	U *- *1	0.0996	0.07695		mg/Kg		77	70 - 130	12	35
Ethylbenzene	<0.00200	U *1	0.0996	0.09016		mg/Kg		91	70 - 130	11	35
m-Xylene & p-Xylene	<0.00401	U *1	0.199	0.1822		mg/Kg		91	70 - 130	9	35
o-Xylene	<0.00200	U *1	0.0996	0.09431		mg/Kg		95	70 - 130	10	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	200	S1+	70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

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

Lab Sample ID: MB 880-42738/1-A

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/27/22 21:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/27/22 21:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/22 15:03	12/27/22 21:39	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	89		70 - 130	12/27/22 15:03	12/27/22 21:39	1			
o-Terphenyl	92		70 - 130	12/27/22 15:03	12/27/22 21:39	1			

Lab Sample ID: LCS 880-42738/2-A

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	716.5		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	676.5	*-	mg/Kg		68	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	92		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-42738/3-A

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42738

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	750.0		mg/Kg		75	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	723.4		mg/Kg		72	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	92		70 - 130						
o-Terphenyl	99		70 - 130						

Lab Sample ID: 890-3702-A-10-D MS

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1121		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *	999	975.7		mg/Kg		98	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	95		70 - 130								

Lab Sample ID: 890-3702-A-10-E MSD

Matrix: Solid

Analysis Batch: 42636

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42738

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	1034		mg/Kg		100	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U *	999	833.6		mg/Kg		83	70 - 130	16	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	81		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42709/1-A

Matrix: Solid

Analysis Batch: 42810

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			12/30/22 03:17	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-42709/2-A
Matrix: Solid
Analysis Batch: 42810

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.4		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-42709/3-A
Matrix: Solid
Analysis Batch: 42810

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	252.2		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-23044-7 MS
Matrix: Solid
Analysis Batch: 42810

Client Sample ID: H-7 (0-0.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.00	U	250	263.8		mg/Kg		104	90 - 110

Lab Sample ID: 880-23044-7 MSD
Matrix: Solid
Analysis Batch: 42810

Client Sample ID: H-7 (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	<5.00	U	250	264.1		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 42759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42759/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 42811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-23044-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-23044-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-23044-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-23044-5	H-5 (0-0.5')	Total/NA	Solid	5035	
MB 880-42811/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42811/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42811/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23040-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
880-23040-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 42814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-6	H-6 (0-0.5')	Total/NA	Solid	5035	
880-23044-7	H-7 (0-0.5')	Total/NA	Solid	5035	
880-23044-8	H-8 (0-0.5')	Total/NA	Solid	5035	
MB 880-42814/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42814/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42814/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3704-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3704-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 42860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-1	H-1 (0-0.5')	Total/NA	Solid	8021B	42811
880-23044-2	H-2 (0-0.5')	Total/NA	Solid	8021B	42811
880-23044-3	H-3 (0-0.5')	Total/NA	Solid	8021B	42811
880-23044-4	H-4 (0-0.5')	Total/NA	Solid	8021B	42811
880-23044-5	H-5 (0-0.5')	Total/NA	Solid	8021B	42811
MB 880-42811/5-A	Method Blank	Total/NA	Solid	8021B	42811
LCS 880-42811/1-A	Lab Control Sample	Total/NA	Solid	8021B	42811
LCSD 880-42811/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42811
880-23040-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	42811
880-23040-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42811

Analysis Batch: 42922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-6	H-6 (0-0.5')	Total/NA	Solid	8021B	42814
880-23044-7	H-7 (0-0.5')	Total/NA	Solid	8021B	42814
880-23044-8	H-8 (0-0.5')	Total/NA	Solid	8021B	42814
MB 880-42759/5-A	Method Blank	Total/NA	Solid	8021B	42759
MB 880-42814/5-A	Method Blank	Total/NA	Solid	8021B	42814
LCS 880-42814/1-A	Lab Control Sample	Total/NA	Solid	8021B	42814
LCSD 880-42814/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42814
890-3704-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	42814
890-3704-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42814

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QC Association Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 42967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-23044-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-23044-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-23044-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-23044-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-23044-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-23044-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	
880-23044-8	H-8 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 42636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	42738
880-23044-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	42738
880-23044-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	42738
880-23044-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	42738
880-23044-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	42738
880-23044-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	42738
880-23044-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	42738
880-23044-8	H-8 (0-0.5')	Total/NA	Solid	8015B NM	42738
MB 880-42738/1-A	Method Blank	Total/NA	Solid	8015B NM	42738
LCS 880-42738/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42738
LCSD 880-42738/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42738
890-3702-A-10-D MS	Matrix Spike	Total/NA	Solid	8015B NM	42738
890-3702-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	42738

Prep Batch: 42738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-23044-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-23044-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-23044-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-23044-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-23044-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-23044-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-23044-8	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-42738/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42738/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42738/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3702-A-10-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3702-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-23044-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-23044-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-23044-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-23044-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-23044-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 42801 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	
880-23044-8	H-8 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 42709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-23044-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-23044-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-23044-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-23044-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-23044-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-23044-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-23044-8	H-8 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-42709/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42709/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42709/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23044-7 MS	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-23044-7 MSD	H-7 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 42810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23044-1	H-1 (0-0.5')	Soluble	Solid	300.0	42709
880-23044-2	H-2 (0-0.5')	Soluble	Solid	300.0	42709
880-23044-3	H-3 (0-0.5')	Soluble	Solid	300.0	42709
880-23044-4	H-4 (0-0.5')	Soluble	Solid	300.0	42709
880-23044-5	H-5 (0-0.5')	Soluble	Solid	300.0	42709
880-23044-6	H-6 (0-0.5')	Soluble	Solid	300.0	42709
880-23044-7	H-7 (0-0.5')	Soluble	Solid	300.0	42709
880-23044-8	H-8 (0-0.5')	Soluble	Solid	300.0	42709
MB 880-42709/1-A	Method Blank	Soluble	Solid	300.0	42709
LCS 880-42709/2-A	Lab Control Sample	Soluble	Solid	300.0	42709
LCSD 880-42709/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42709
880-23044-7 MS	H-7 (0-0.5')	Soluble	Solid	300.0	42709
880-23044-7 MSD	H-7 (0-0.5')	Soluble	Solid	300.0	42709

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23044-1

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42811	12/28/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42860	12/29/22 18:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42967	12/30/22 13:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42801	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 03:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	42709	12/27/22 13:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42810	12/30/22 11:19	CH	EET MID

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

Lab Sample ID: 880-23044-2

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42811	12/28/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42860	12/29/22 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42967	12/30/22 13:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42801	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 04:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42709	12/27/22 13:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42810	12/30/22 11:24	CH	EET MID

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

Lab Sample ID: 880-23044-3

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42811	12/28/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42860	12/29/22 18:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42967	12/30/22 13:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42801	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 04:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42709	12/27/22 13:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42810	12/30/22 11:29	CH	EET MID

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

Lab Sample ID: 880-23044-4

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42811	12/28/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42860	12/29/22 19:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42967	12/30/22 13:02	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23044-4

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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			42801	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 04:56	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42709	12/27/22 13:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42810	12/30/22 04:23	CH	EET MID

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

Lab Sample ID: 880-23044-5

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42811	12/28/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42860	12/29/22 19:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42967	12/30/22 13:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42801	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 05:17	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42709	12/27/22 13:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42810	12/30/22 04:28	CH	EET MID

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

Lab Sample ID: 880-23044-6

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42814	12/28/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42922	12/31/22 11:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42967	01/03/23 09:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42801	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 05:38	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42709	12/27/22 13:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42810	12/30/22 04:33	CH	EET MID

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-23044-7

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42814	12/28/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42922	12/31/22 11:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42967	01/03/23 09:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42801	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 05:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

Client Sample ID: H-7 (0-0.5')
Date Collected: 12/21/22 00:00
Date Received: 12/22/22 13:34

Lab Sample ID: 880-23044-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	42709	12/27/22 13:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42810	12/30/22 11:33	CH	EET MID

Client Sample ID: H-8 (0-0.5')
Date Collected: 12/21/22 00:00
Date Received: 12/22/22 13:34

Lab Sample ID: 880-23044-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42814	12/28/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42922	12/31/22 12:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42967	01/03/23 09:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42801	12/28/22 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42738	12/27/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42636	12/28/22 06:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42709	12/27/22 13:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42810	12/30/22 11:48	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: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23044-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23044-1	H-1 (0-0.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23044-2	H-2 (0-0.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23044-3	H-3 (0-0.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23044-4	H-4 (0-0.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23044-5	H-5 (0-0.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23044-6	H-6 (0-0.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23044-7	H-7 (0-0.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23044-8	H-8 (0-0.5')	Solid	12/21/22 00:00	12/22/22 13:34

Project Manager	Ashton Thielke	Bill to (if different)	Laci Lugo
Company Name	Carmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Mainenfield St, Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79701
Phone	432-813-5347	Email	laci.lugo@coterra.com & ashton.thielke@coterra.com

Project Name:	Estill AD Federal #003 (10 03 2005)	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST										PRESERVATIVE CODES											
Project Number:	1197	Due Date														None NO DI Water H ₂ O Cool Cool MeOH Me HCL HC HNO ₃ HN H ₂ SO ₄ H ₂ NaOH Na H ₃ PO ₄ HP NaHSO ₄ , NABIS Na ₂ S ₂ O ₃ NaSO ₃ Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SAPC											
Sampler's Name:	Eddy Co. NM CRM	TAT starts the day received by the lab, if received by 4 30pm																									
SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No	Parameters	BTEx 8021B TPH 8015M (GRO + DRO + MRO) Chloride 300 0										HOLD											
	Received Intact	Yes No	Thermometer ID	Yes No																							
	Cooler Custody Seals.	Yes No	N/A	Correction Factor																						Yes No	
	Sample Custody Seals	Yes No	M/A	Temperature Reading																						Yes No	
	Total Containers			Corrected Temperature																							
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																					Sample Comments
H-1 (0-0 5')	12/21/2022		X		Grab/	1	X	X	X																		U2
H-2 (0-0 5')	12/21/2022		X		Grab/	1	X	X	X																		
H-3 (0-0 5')	12/21/2022		X		Grab/	1	X	X	X																		
H-4 (0-0 5')	12/21/2022		X		Grab/	1	X	X	X																		
H-5 (0-0 5')	12/21/2022		X		Grab/	1	X	X	X																		
H-6 (0-0 5')	12/21/2022		X		Grab/	1	X	X	X																		
H-7 (0-0 5')	12/21/2022		X		Grab/	1	X	X	X																		
H-8 (0-0 5')	12/21/2022		X		Grab/	1	X	X	X																		

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



880-23044 Chain of Custody

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
[Signature]	[Signature]	12/22/2024			

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-23044-1

SDG Number: Eddy Co, NM

Login Number: 23044

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 1/4/2023 8:58:40 AM

JOB DESCRIPTION

Estill AD Federal #003 (10.03.2005)
SDG NUMBER Eddy Co, NM

JOB NUMBER

880-23047-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

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

Authorization

Generated
1/4/2023 8:58:40 AM

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

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Laboratory Job ID: 880-23047-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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

Case Narrative

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Job ID: 880-23047-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-23047-1**

Receipt

The samples were received on 12/22/2022 1:34 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 0.5°C

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-42892 and analytical batch 880-42924 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-42893 and analytical batch 880-43041 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-42711 and analytical batch 880-42899 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: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23047-1

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1 F2	0.00200		mg/Kg		12/29/22 12:58	12/30/22 23:23	1
Toluene	<0.00200	U F1 F2	0.00200		mg/Kg		12/29/22 12:58	12/30/22 23:23	1
Ethylbenzene	<0.00200	U F1 F2	0.00200		mg/Kg		12/29/22 12:58	12/30/22 23:23	1
m-Xylene & p-Xylene	<0.00401	U F1 F2	0.00401		mg/Kg		12/29/22 12:58	12/30/22 23:23	1
o-Xylene	<0.00200	U F1 F2	0.00200		mg/Kg		12/29/22 12:58	12/30/22 23:23	1
Xylenes, Total	<0.00401	U F1 F2	0.00401		mg/Kg		12/29/22 12:58	12/30/22 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	12/29/22 12:58	12/30/22 23:23	1
1,4-Difluorobenzene (Surr)	59	S1-	70 - 130	12/29/22 12:58	12/30/22 23:23	1

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			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/28/22 18:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		12/28/22 08:23	12/28/22 18:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	12/28/22 08:23	12/28/22 18:13	1
o-Terphenyl	102		70 - 130	12/28/22 08:23	12/28/22 18:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.16		4.97		mg/Kg			12/30/22 15:48	1

Client Sample ID: S-1 (1'.5)

Lab Sample ID: 880-23047-2

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/30/22 23:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/30/22 23:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/30/22 23:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/30/22 23:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/30/22 23:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/30/22 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	12/29/22 12:58	12/30/22 23:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/29/22 12:58	12/30/22 23:44	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (1'.5)

Lab Sample ID: 880-23047-2

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/28/22 19:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 19:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				12/28/22 08:23	12/28/22 19:21	1
o-Terphenyl	130		70 - 130				12/28/22 08:23	12/28/22 19:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.89		4.99		mg/Kg			12/30/22 15:52	1

Client Sample ID: S-1 (2')

Lab Sample ID: 880-23047-3

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 00:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 00:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 00:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 00:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 00:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				12/29/22 12:58	12/31/22 00:05	1
1,4-Difluorobenzene (Surr)	72		70 - 130				12/29/22 12:58	12/31/22 00:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/28/22 19:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 19:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (2')

Lab Sample ID: 880-23047-3

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				12/28/22 08:23	12/28/22 19:43	1
o-Terphenyl	103		70 - 130				12/28/22 08:23	12/28/22 19:43	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.91		5.05		mg/Kg			12/30/22 15:57	1

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

Lab Sample ID: 880-23047-4

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 00:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 00:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 00:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/29/22 12:58	12/31/22 00:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 00:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/29/22 12:58	12/31/22 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				12/29/22 12:58	12/31/22 00:26	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/29/22 12:58	12/31/22 00:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/29/22 13:59	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 *1	49.8		mg/Kg		12/28/22 08:23	12/28/22 20:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/28/22 08:23	12/28/22 20:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/28/22 08:23	12/28/22 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				12/28/22 08:23	12/28/22 20:05	1
o-Terphenyl	120		70 - 130				12/28/22 08:23	12/28/22 20:05	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		5.04		mg/Kg			12/30/22 13:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-23047-5

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/29/22 12:58	12/31/22 00:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/29/22 12:58	12/31/22 00:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/29/22 12:58	12/31/22 00:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/29/22 12:58	12/31/22 00:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/29/22 12:58	12/31/22 00:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/29/22 12:58	12/31/22 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/29/22 12:58	12/31/22 00:47	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/29/22 12:58	12/31/22 00:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/28/22 20:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 20:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	12/28/22 08:23	12/28/22 20:28	1
o-Terphenyl	109		70 - 130	12/28/22 08:23	12/28/22 20:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/30/22 13:36	1

Client Sample ID: S-2 (2')

Lab Sample ID: 880-23047-6

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/29/22 12:58	12/31/22 01:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/29/22 12:58	12/31/22 01:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/29/22 12:58	12/31/22 01:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/29/22 12:58	12/31/22 01:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/29/22 12:58	12/31/22 01:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/29/22 12:58	12/31/22 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/29/22 12:58	12/31/22 01:08	1
1,4-Difluorobenzene (Surr)	111		70 - 130	12/29/22 12:58	12/31/22 01:08	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (2')

Lab Sample ID: 880-23047-6

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/29/22 13:59	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 *1	49.8		mg/Kg		12/28/22 08:23	12/28/22 20:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/28/22 08:23	12/28/22 20:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/28/22 08:23	12/28/22 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				12/28/22 08:23	12/28/22 20:50	1
o-Terphenyl	131	S1+	70 - 130				12/28/22 08:23	12/28/22 20:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/30/22 13:40	1

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

Lab Sample ID: 880-23047-7

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 01:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 01:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 01:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 01:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 01:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 01:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/29/22 12:58	12/31/22 01:28	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130				12/29/22 12:58	12/31/22 01:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/28/22 21:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 21:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23047-7

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 21:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				12/28/22 08:23	12/28/22 21:12	1
o-Terphenyl	132	S1+	70 - 130				12/28/22 08:23	12/28/22 21:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.37		5.03		mg/Kg			12/30/22 13:45	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-23047-8

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 01:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 01:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 01:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 01:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 01:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				12/29/22 12:58	12/31/22 01:49	1
1,4-Difluorobenzene (Surr)	82		70 - 130				12/29/22 12:58	12/31/22 01:49	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			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/28/22 21:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 21:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				12/28/22 08:23	12/28/22 21:34	1
o-Terphenyl	116		70 - 130				12/28/22 08:23	12/28/22 21:34	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.1		5.02		mg/Kg			12/30/22 13:50	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-3 (2')

Lab Sample ID: 880-23047-9

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 02:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 02:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 02:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/29/22 12:58	12/31/22 02:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 02:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/29/22 12:58	12/31/22 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/29/22 12:58	12/31/22 02:10	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/29/22 12:58	12/31/22 02:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:59	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 *1	50.0		mg/Kg		12/28/22 08:23	12/28/22 21:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/28/22 21:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/28/22 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	12/28/22 08:23	12/28/22 21:57	1
o-Terphenyl	106		70 - 130	12/28/22 08:23	12/28/22 21:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.0		4.98		mg/Kg			12/30/22 13:54	1

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

Lab Sample ID: 880-23047-10

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 02:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 02:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 02:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/29/22 12:58	12/31/22 02:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 02:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/29/22 12:58	12/31/22 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/29/22 12:58	12/31/22 02:31	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	12/29/22 12:58	12/31/22 02:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23047-10

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:59	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 *1	50.0		mg/Kg		12/28/22 08:23	12/28/22 22:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/28/22 22:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/28/22 22:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				12/28/22 08:23	12/28/22 22:19	1
o-Terphenyl	109		70 - 130				12/28/22 08:23	12/28/22 22:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.4	F1	4.96		mg/Kg			12/30/22 13:59	1

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-23047-11

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 03:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 03:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 03:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 03:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 03:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				12/29/22 12:58	12/31/22 03:56	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/29/22 12:58	12/31/22 03:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/28/22 23:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 23:04	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-23047-11

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 23:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				12/28/22 08:23	12/28/22 23:04	1
o-Terphenyl	114		70 - 130				12/28/22 08:23	12/28/22 23:04	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			12/30/22 14:13	1

Client Sample ID: S-4 (2')

Lab Sample ID: 880-23047-12

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 04:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 04:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 04:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 04:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 04:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 04:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				12/29/22 12:58	12/31/22 04:17	1
1,4-Difluorobenzene (Surr)	85		70 - 130				12/29/22 12:58	12/31/22 04:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:59	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 *1	50.0		mg/Kg		12/28/22 08:23	12/28/22 23:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/28/22 23:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/28/22 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				12/28/22 08:23	12/28/22 23:26	1
o-Terphenyl	108		70 - 130				12/28/22 08:23	12/28/22 23:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			12/30/22 14:18	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-5 (0-1')

Lab Sample ID: 880-23047-13

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/29/22 12:58	12/31/22 04:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/29/22 12:58	12/31/22 04:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/29/22 12:58	12/31/22 04:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/29/22 12:58	12/31/22 04:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/29/22 12:58	12/31/22 04:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/29/22 12:58	12/31/22 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	12/29/22 12:58	12/31/22 04:38	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/29/22 12:58	12/31/22 04:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/28/22 23:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 23:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/28/22 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	12/28/22 08:23	12/28/22 23:48	1
o-Terphenyl	131	S1+	70 - 130	12/28/22 08:23	12/28/22 23:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.66		5.03		mg/Kg			12/30/22 14:32	1

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-23047-14

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 04:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 04:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 04:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/29/22 12:58	12/31/22 04:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 04:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/29/22 12:58	12/31/22 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	12/29/22 12:58	12/31/22 04:59	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/29/22 12:58	12/31/22 04:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-23047-14

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:59	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 *1	50.0		mg/Kg		12/28/22 08:23	12/29/22 00:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/29/22 00:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/29/22 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				12/28/22 08:23	12/29/22 00:09	1
o-Terphenyl	114		70 - 130				12/28/22 08:23	12/29/22 00:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.76		5.00		mg/Kg			12/30/22 14:37	1

Client Sample ID: S-5 (2')

Lab Sample ID: 880-23047-15

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 05:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 05:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 05:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/29/22 12:58	12/31/22 05:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 05:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/29/22 12:58	12/31/22 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				12/29/22 12:58	12/31/22 05:20	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/29/22 12:58	12/31/22 05:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/29/22 00:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/29/22 00:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-5 (2')

Lab Sample ID: 880-23047-15

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/29/22 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				12/28/22 08:23	12/29/22 00:31	1
o-Terphenyl	116		70 - 130				12/28/22 08:23	12/29/22 00:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.09		4.98		mg/Kg			12/30/22 14:41	1

Client Sample ID: S-6 (0-1')

Lab Sample ID: 880-23047-16

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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		12/29/22 12:58	12/31/22 05:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/29/22 12:58	12/31/22 05:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/29/22 12:58	12/31/22 05:40	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/29/22 12:58	12/31/22 05:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/29/22 12:58	12/31/22 05:40	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/29/22 12:58	12/31/22 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				12/29/22 12:58	12/31/22 05:40	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130				12/29/22 12:58	12/31/22 05:40	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			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/29/22 00:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/29/22 00:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/29/22 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				12/28/22 08:23	12/29/22 00:52	1
o-Terphenyl	124		70 - 130				12/28/22 08:23	12/29/22 00:52	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			12/30/22 14:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-23047-17

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 06:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 06:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 06:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 06:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 06:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	12/29/22 12:58	12/31/22 06:01	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130	12/29/22 12:58	12/31/22 06:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:59	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 *1	50.0		mg/Kg		12/28/22 08:23	12/29/22 01:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/29/22 01:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/29/22 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	12/28/22 08:23	12/29/22 01:14	1
o-Terphenyl	150	S1+	70 - 130	12/28/22 08:23	12/29/22 01:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	313		5.02		mg/Kg			12/30/22 14:51	1

Client Sample ID: S-6 (2')

Lab Sample ID: 880-23047-18

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 06:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 06:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 06:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/29/22 12:58	12/31/22 06:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/31/22 06:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/29/22 12:58	12/31/22 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	12/29/22 12:58	12/31/22 06:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/29/22 12:58	12/31/22 06:21	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-6 (2')

Lab Sample ID: 880-23047-18

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:59	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 *1	50.0		mg/Kg		12/28/22 08:23	12/29/22 01:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/29/22 01:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/29/22 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				12/28/22 08:23	12/29/22 01:36	1
o-Terphenyl	124		70 - 130				12/28/22 08:23	12/29/22 01:36	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304		25.1		mg/Kg			12/30/22 14:56	5

Client Sample ID: S-7 (0-1')

Lab Sample ID: 880-23047-19

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 06:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 06:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 06:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 06:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 06:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 06:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				12/29/22 12:58	12/31/22 06:42	1
1,4-Difluorobenzene (Surr)	74		70 - 130				12/29/22 12:58	12/31/22 06:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/29/22 13:59	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 *1	49.9		mg/Kg		12/28/22 08:23	12/29/22 01:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/29/22 01:58	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-7 (0-1')

Lab Sample ID: 880-23047-19

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/22 08:23	12/29/22 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				12/28/22 08:23	12/29/22 01:58	1
o-Terphenyl	120		70 - 130				12/28/22 08:23	12/29/22 01:58	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		24.9		mg/Kg			12/30/22 15:00	5

Client Sample ID: S-7 (1.5')

Lab Sample ID: 880-23047-20

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 07:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 07:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 07:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 07:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:58	12/31/22 07:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 12:58	12/31/22 07:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				12/29/22 12:58	12/31/22 07:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/29/22 12:58	12/31/22 07:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/29/22 13:59	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 *1	50.0		mg/Kg		12/28/22 08:23	12/29/22 02:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/29/22 02:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/29/22 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				12/28/22 08:23	12/29/22 02:19	1
o-Terphenyl	108		70 - 130				12/28/22 08:23	12/29/22 02:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	315		24.9		mg/Kg			12/30/22 14:48	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-7 (2')

Lab Sample ID: 880-23047-21

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:52	12/30/22 21:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:52	12/30/22 21:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:52	12/30/22 21:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/29/22 12:52	12/30/22 21:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:52	12/30/22 21:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/29/22 12:52	12/30/22 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/29/22 12:52	12/30/22 21:48	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/29/22 12:52	12/30/22 21:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/22 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/30/22 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 20:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 20:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	12/29/22 08:29	12/29/22 20:59	1
o-Terphenyl	115		70 - 130	12/29/22 08:29	12/29/22 20:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	383		4.97		mg/Kg			12/30/22 15:14	1

Client Sample ID: S-8 (0-1')

Lab Sample ID: 880-23047-22

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:52	12/30/22 22:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:52	12/30/22 22:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:52	12/30/22 22:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 12:52	12/30/22 22:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 12:52	12/30/22 22:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 12:52	12/30/22 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/29/22 12:52	12/30/22 22:09	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/29/22 12:52	12/30/22 22:09	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-8 (0-1')

Lab Sample ID: 880-23047-22

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/22 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/30/22 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/29/22 08:29	12/29/22 21:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/29/22 08:29	12/29/22 21:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/22 08:29	12/29/22 21:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				12/29/22 08:29	12/29/22 21:21	1
o-Terphenyl	105		70 - 130				12/29/22 08:29	12/29/22 21:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		5.02		mg/Kg			12/30/22 15:23	1

Client Sample ID: S-8 (1.5')

Lab Sample ID: 880-23047-23

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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		12/29/22 12:52	12/30/22 22:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/29/22 12:52	12/30/22 22:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/29/22 12:52	12/30/22 22:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/29/22 12:52	12/30/22 22:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/29/22 12:52	12/30/22 22:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/29/22 12:52	12/30/22 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				12/29/22 12:52	12/30/22 22:30	1
1,4-Difluorobenzene (Surr)	109		70 - 130				12/29/22 12:52	12/30/22 22:30	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			12/31/22 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/30/22 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 21:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 21:44	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-8 (1.5')

Lab Sample ID: 880-23047-23

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				12/29/22 08:29	12/29/22 21:44	1
o-Terphenyl	112		70 - 130				12/29/22 08:29	12/29/22 21:44	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284		5.01		mg/Kg			12/30/22 15:32	1

Client Sample ID: S-8 (2')

Lab Sample ID: 880-23047-24

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/22 13:04	01/03/23 22:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/22 13:04	01/03/23 22:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/22 13:04	01/03/23 22:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/22 13:04	01/03/23 22:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/22 13:04	01/03/23 22:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/22 13:04	01/03/23 22:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				12/29/22 13:04	01/03/23 22:20	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/29/22 13:04	01/03/23 22:20	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			01/04/23 09:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/30/22 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 22:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 22:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				12/29/22 08:29	12/29/22 22:06	1
o-Terphenyl	133	S1+	70 - 130				12/29/22 08:29	12/29/22 22:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	301		4.98		mg/Kg			12/30/22 15:45	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-23045-A-1-B MS	Matrix Spike	103	114
880-23045-A-1-C MSD	Matrix Spike Duplicate	102	106
880-23047-1	S-1 (0-1')	84	59 S1-
880-23047-1 MS	S-1 (0-1')	101	65 S1-
880-23047-1 MSD	S-1 (0-1')	106	90
880-23047-2	S-1 (1'.5)	109	104
880-23047-3	S-1 (2')	123	72
880-23047-4	S-2 (0-1')	134 S1+	94
880-23047-5	S-2 (1.5')	119	84
880-23047-6	S-2 (2')	110	111
880-23047-7	S-3 (0-1')	115	62 S1-
880-23047-8	S-3 (1.5')	124	82
880-23047-9	S-3 (2')	114	108
880-23047-10	S-4 (0-1')	124	69 S1-
880-23047-11	S-4 (1.5')	104	103
880-23047-12	S-4 (2')	125	85
880-23047-13	S-5 (0-1')	130	87
880-23047-14	S-5 (1.5')	129	103
880-23047-15	S-5 (2')	131 S1+	91
880-23047-16	S-6 (0-1')	114	66 S1-
880-23047-17	S-6 (1.5')	106	63 S1-
880-23047-18	S-6 (2')	134 S1+	93
880-23047-19	S-7 (0-1')	125	74
880-23047-20	S-7 (1.5')	122	98
880-23047-21	S-7 (2')	104	110
880-23047-22	S-8 (0-1')	103	103
880-23047-23	S-8 (1.5')	104	109
880-23047-24	S-8 (2')	127	96
880-23050-A-1-D MS	Matrix Spike	81	104
880-23050-A-1-E MSD	Matrix Spike Duplicate	102	94
LCS 880-42891/1-A	Lab Control Sample	90	117
LCS 880-42892/1-A	Lab Control Sample	81	95
LCS 880-42893/1-A	Lab Control Sample	101	92
LCSD 880-42891/2-A	Lab Control Sample Dup	96	108
LCSD 880-42892/2-A	Lab Control Sample Dup	83	94
LCSD 880-42893/2-A	Lab Control Sample Dup	101	92
MB 880-42812/5-A	Method Blank	96	90
MB 880-42891/5-A	Method Blank	95	107
MB 880-42892/5-A	Method Blank	97	96
MB 880-42893/5-A	Method Blank	102	86

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-23047-1

Project/Site: Estill AD Federal #003 (10.03.2005)

SDG: Eddy Co, NM

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)
880-23043-A-1-F MS	Matrix Spike	60 S1-	53 S1-
880-23043-A-1-G MSD	Matrix Spike Duplicate	62 S1-	46 S1-
880-23047-1	S-1 (0-1')	93	102
880-23047-1 MS	S-1 (0-1')	113	109
880-23047-1 MSD	S-1 (0-1')	115	110
880-23047-2	S-1 (1.5')	121	130
880-23047-3	S-1 (2')	95	103
880-23047-4	S-2 (0-1')	112	120
880-23047-5	S-2 (1.5')	103	109
880-23047-6	S-2 (2')	124	131 S1+
880-23047-7	S-3 (0-1')	124	132 S1+
880-23047-8	S-3 (1.5')	107	116
880-23047-9	S-3 (2')	98	106
880-23047-10	S-4 (0-1')	100	109
880-23047-11	S-4 (1.5')	105	114
880-23047-12	S-4 (2')	102	108
880-23047-13	S-5 (0-1')	121	131 S1+
880-23047-14	S-5 (1.5')	104	114
880-23047-15	S-5 (2')	108	116
880-23047-16	S-6 (0-1')	115	124
880-23047-17	S-6 (1.5')	139 S1+	150 S1+
880-23047-18	S-6 (2')	113	124
880-23047-19	S-7 (0-1')	111	120
880-23047-20	S-7 (1.5')	99	108
880-23047-21	S-7 (2')	117	115
880-23047-22	S-8 (0-1')	104	105
880-23047-23	S-8 (1.5')	112	112
880-23047-24	S-8 (2')	138 S1+	133 S1+
LCS 880-42763/2-A	Lab Control Sample	110	123
LCS 880-42834/2-A	Lab Control Sample	102	115
LCSD 880-42763/3-A	Lab Control Sample Dup	93	105
LCSD 880-42834/3-A	Lab Control Sample Dup	110	122
MB 880-42763/1-A	Method Blank	100	112
MB 880-42834/1-A	Method Blank	113	113

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42812/5-A

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/28/22 14:41	12/30/22 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:41	12/30/22 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/28/22 14:41	12/30/22 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/28/22 14:41	12/30/22 11:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130	12/28/22 14:41	12/30/22 11:13	1

Lab Sample ID: MB 880-42891/5-A

Matrix: Solid

Analysis Batch: 42933

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:52	12/30/22 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:52	12/30/22 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:52	12/30/22 13:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/29/22 12:52	12/30/22 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:52	12/30/22 13:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/29/22 12:52	12/30/22 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	12/29/22 12:52	12/30/22 13:19	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/29/22 12:52	12/30/22 13:19	1

Lab Sample ID: LCS 880-42891/1-A

Matrix: Solid

Analysis Batch: 42933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09445		mg/Kg		94	70 - 130
Toluene	0.100	0.09113		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09919		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1808		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08671		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-42891/2-A

Matrix: Solid

Analysis Batch: 42933

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42891

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1007		mg/Kg		101	70 - 130	6	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-42891/2-A

Matrix: Solid

Analysis Batch: 42933

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42891

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09360		mg/Kg		94	70 - 130	3	35
Ethylbenzene	0.100	0.09019		mg/Kg		90	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1861		mg/Kg		93	70 - 130	3	35
o-Xylene	0.100	0.08872		mg/Kg		89	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-23045-A-1-B MS

Matrix: Solid

Analysis Batch: 42933

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.101	0.1006		mg/Kg		100	70 - 130
Toluene	<0.00200	U	0.101	0.08516		mg/Kg		84	70 - 130
Ethylbenzene	<0.00200	U	0.101	0.08012		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.202	0.1624		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.101	0.08017		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-23045-A-1-C MSD

Matrix: Solid

Analysis Batch: 42933

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42891

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08888		mg/Kg		89	70 - 130	12	35
Toluene	<0.00200	U	0.0996	0.08088		mg/Kg		81	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0996	0.08095		mg/Kg		81	70 - 130	1	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1662		mg/Kg		83	70 - 130	2	35
o-Xylene	<0.00200	U	0.0996	0.08137		mg/Kg		82	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-42892/5-A

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/30/22 23:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/30/22 23:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/30/22 23:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/29/22 12:58	12/30/22 23:01	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-42892/5-A

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/22 12:58	12/30/22 23:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/29/22 12:58	12/30/22 23:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/29/22 12:58	12/30/22 23:01	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/29/22 12:58	12/30/22 23:01	1

Lab Sample ID: LCS 880-42892/1-A

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09460		mg/Kg		95	70 - 130
Toluene	0.100	0.08878		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.07419		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1525		mg/Kg		76	70 - 130
o-Xylene	0.100	0.07695		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	81		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-42892/2-A

Matrix: Solid

Analysis Batch: 42924

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08698		mg/Kg		87	70 - 130	8	35
Toluene	0.100	0.08334		mg/Kg		83	70 - 130	6	35
Ethylbenzene	0.100	0.07006		mg/Kg		70	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1460		mg/Kg		73	70 - 130	4	35
o-Xylene	0.100	0.07406		mg/Kg		74	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-23047-1 MS

Matrix: Solid

Analysis Batch: 42924

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

Prep Type: Total/NA

Prep Batch: 42892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1 F2	0.0998	0.008279	F1	mg/Kg		8	70 - 130
Toluene	<0.00200	U F1 F2	0.0998	0.01108	F1	mg/Kg		11	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.0998	0.01584	F1	mg/Kg		16	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1 F2	0.200	0.02976	F1	mg/Kg		15	70 - 130
o-Xylene	<0.00200	U F1 F2	0.0998	0.01723	F1	mg/Kg		17	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23047-1 MS

Matrix: Solid

Analysis Batch: 42924

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

Prep Type: Total/NA

Prep Batch: 42892

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130

Lab Sample ID: 880-23047-1 MSD

Matrix: Solid

Analysis Batch: 42924

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

Prep Type: Total/NA

Prep Batch: 42892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.02803	F1 F2	mg/Kg		28	70 - 130	109	35
Toluene	<0.00200	U F1 F2	0.100	0.03013	F1 F2	mg/Kg		30	70 - 130	92	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.03563	F1 F2	mg/Kg		35	70 - 130	77	35
m-Xylene & p-Xylene	<0.00401	U F1 F2	0.201	0.07597	F1 F2	mg/Kg		38	70 - 130	87	35
o-Xylene	<0.00200	U F1 F2	0.100	0.04098	F1 F2	mg/Kg		41	70 - 130	82	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-42893/5-A

Matrix: Solid

Analysis Batch: 43041

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/22 13:04	01/03/23 14:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/22 13:04	01/03/23 14:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/22 13:04	01/03/23 14:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/29/22 13:04	01/03/23 14:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/22 13:04	01/03/23 14:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/29/22 13:04	01/03/23 14:20	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	12/29/22 13:04	01/03/23 14:20	1
1,4-Difluorobenzene (Surr)	86		70 - 130	12/29/22 13:04	01/03/23 14:20	1

Lab Sample ID: LCS 880-42893/1-A

Matrix: Solid

Analysis Batch: 43041

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09984		mg/Kg		100	70 - 130
Toluene	0.100	0.09819		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09320		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.2026		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130

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

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-42893/1-A

Matrix: Solid

Analysis Batch: 43041

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42893

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

Lab Sample ID: LCSD 880-42893/2-A

Matrix: Solid

Analysis Batch: 43041

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42893

	LCS	LCS							%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.09826		mg/Kg		98	70 - 130	2	35		
Toluene	0.100	0.09771		mg/Kg		98	70 - 130	0	35		
Ethylbenzene	0.100	0.09177		mg/Kg		92	70 - 130	2	35		
m-Xylene & p-Xylene	0.200	0.1991		mg/Kg		100	70 - 130	2	35		
o-Xylene	0.100	0.09919		mg/Kg		99	70 - 130	1	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-23050-A-1-D MS

Matrix: Solid

Analysis Batch: 43041

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42893

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00201	U F1	0.100	0.07845		mg/Kg		78	70 - 130		
Toluene	<0.00201	U F1	0.100	0.08019		mg/Kg		80	70 - 130		
Ethylbenzene	<0.00201	U F1	0.100	0.06343	F1	mg/Kg		63	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1313	F1	mg/Kg		66	70 - 130		
o-Xylene	<0.00201	U F1	0.100	0.06537	F1	mg/Kg		65	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	81		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-23050-A-1-E MSD

Matrix: Solid

Analysis Batch: 43041

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42893

	Sample	Sample	Spike	MSD	MSD				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0990	0.06675	F1	mg/Kg		67	70 - 130	16	35
Toluene	<0.00201	U F1	0.0990	0.06084	F1	mg/Kg		61	70 - 130	27	35
Ethylbenzene	<0.00201	U F1	0.0990	0.05180	F1	mg/Kg		52	70 - 130	20	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1130	F1	mg/Kg		57	70 - 130	15	35
o-Xylene	<0.00201	U F1	0.0990	0.05884	F1	mg/Kg		59	70 - 130	11	35

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

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-42763/1-A

Matrix: Solid

Analysis Batch: 42773

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/28/22 17:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/28/22 17:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/22 08:23	12/28/22 17:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				12/28/22 08:23	12/28/22 17:06	1
o-Terphenyl	112		70 - 130				12/28/22 08:23	12/28/22 17:06	1

Lab Sample ID: LCS 880-42763/2-A

Matrix: Solid

Analysis Batch: 42773

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1090		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1183		mg/Kg		118	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 130				
o-Terphenyl	123		70 - 130				

Lab Sample ID: LCSD 880-42763/3-A

Matrix: Solid

Analysis Batch: 42773

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42763

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	801.9	*1	mg/Kg		80	70 - 130	30	20
Diesel Range Organics (Over C10-C28)	1000	992.7		mg/Kg		99	70 - 130	18	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: 880-23047-1 MS

Matrix: Solid

Analysis Batch: 42773

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

Prep Type: Total/NA

Prep Batch: 42763

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	1102		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1299		mg/Kg		128	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23047-1 MS

Matrix: Solid

Analysis Batch: 42773

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

Prep Type: Total/NA

Prep Batch: 42763

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 880-23047-1 MSD

Matrix: Solid

Analysis Batch: 42773

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

Prep Type: Total/NA

Prep Batch: 42763

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	1276		mg/Kg		123	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1337	F1	mg/Kg		132	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: MB 880-42834/1-A

Matrix: Solid

Analysis Batch: 42861

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/29/22 08:29	12/29/22 13:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/29/22 08:29	12/29/22 13:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/22 08:29	12/29/22 13:34	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				12/29/22 08:29	12/29/22 13:34	1
o-Terphenyl	113		70 - 130				12/29/22 08:29	12/29/22 13:34	1

Lab Sample ID: LCS 880-42834/2-A

Matrix: Solid

Analysis Batch: 42861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	918.0		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1002		mg/Kg		100	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	115		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-42834/3-A

Matrix: Solid

Analysis Batch: 42861

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42834

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	824.8		mg/Kg		82	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	1088		mg/Kg		109	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	110		70 - 130						
o-Terphenyl	122		70 - 130						

Lab Sample ID: 880-23043-A-1-F MS

Matrix: Solid

Analysis Batch: 42861

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	898.0		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1122		mg/Kg		112	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	60	S1-	70 - 130								
o-Terphenyl	53	S1-	70 - 130								

Lab Sample ID: 880-23043-A-1-G MSD

Matrix: Solid

Analysis Batch: 42861

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42834

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	1005		mg/Kg		96	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	946.9		mg/Kg		95	70 - 130	17	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	62	S1-	70 - 130								
o-Terphenyl	46	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42711/1-A

Matrix: Solid

Analysis Batch: 42899

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			12/30/22 12:39	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-42711/2-A

Matrix: Solid

Analysis Batch: 42899

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.7		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-42711/3-A

Matrix: Solid

Analysis Batch: 42899

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	266.3		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 880-23047-10 MS

Matrix: Solid

Analysis Batch: 42899

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	60.4	F1	248	353.9	F1	mg/Kg		118	90 - 110

Lab Sample ID: 880-23047-10 MSD

Matrix: Solid

Analysis Batch: 42899

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60.4	F1	248	350.4	F1	mg/Kg		117	90 - 110	1	20

Lab Sample ID: MB 880-42713/1-A

Matrix: Solid

Analysis Batch: 42901

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			12/30/22 14:22	1

Lab Sample ID: LCS 880-42713/2-A

Matrix: Solid

Analysis Batch: 42901

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.7		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-42713/3-A

Matrix: Solid

Analysis Batch: 42901

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	271.2		mg/Kg		108	90 - 110	2	20

Lab Sample ID: 880-23047-20 MS

Matrix: Solid

Analysis Batch: 42901

Client Sample ID: S-7 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	315		1250	1658		mg/Kg		108	90 - 110

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-23047-20 MSD							Client Sample ID: S-7 (1.5')					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 42901												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	315		1250	1652		mg/Kg		107	90 - 110	0	20	

QC Association Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 42812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42812/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 42891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-21	S-7 (2')	Total/NA	Solid	5035	
880-23047-22	S-8 (0-1')	Total/NA	Solid	5035	
880-23047-23	S-8 (1.5')	Total/NA	Solid	5035	
MB 880-42891/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42891/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42891/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23045-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-23045-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 42892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-1	S-1 (0-1')	Total/NA	Solid	5035	
880-23047-2	S-1 (1.5')	Total/NA	Solid	5035	
880-23047-3	S-1 (2')	Total/NA	Solid	5035	
880-23047-4	S-2 (0-1')	Total/NA	Solid	5035	
880-23047-5	S-2 (1.5')	Total/NA	Solid	5035	
880-23047-6	S-2 (2')	Total/NA	Solid	5035	
880-23047-7	S-3 (0-1')	Total/NA	Solid	5035	
880-23047-8	S-3 (1.5')	Total/NA	Solid	5035	
880-23047-9	S-3 (2')	Total/NA	Solid	5035	
880-23047-10	S-4 (0-1')	Total/NA	Solid	5035	
880-23047-11	S-4 (1.5')	Total/NA	Solid	5035	
880-23047-12	S-4 (2')	Total/NA	Solid	5035	
880-23047-13	S-5 (0-1')	Total/NA	Solid	5035	
880-23047-14	S-5 (1.5')	Total/NA	Solid	5035	
880-23047-15	S-5 (2')	Total/NA	Solid	5035	
880-23047-16	S-6 (0-1')	Total/NA	Solid	5035	
880-23047-17	S-6 (1.5')	Total/NA	Solid	5035	
880-23047-18	S-6 (2')	Total/NA	Solid	5035	
880-23047-19	S-7 (0-1')	Total/NA	Solid	5035	
880-23047-20	S-7 (1.5')	Total/NA	Solid	5035	
MB 880-42892/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42892/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42892/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23047-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-23047-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 42893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-24	S-8 (2')	Total/NA	Solid	5035	
MB 880-42893/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42893/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42893/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23050-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-23050-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 42924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-1	S-1 (0-1')	Total/NA	Solid	8021B	42892
880-23047-2	S-1 (1'.5)	Total/NA	Solid	8021B	42892
880-23047-3	S-1 (2')	Total/NA	Solid	8021B	42892
880-23047-4	S-2 (0-1')	Total/NA	Solid	8021B	42892
880-23047-5	S-2 (1.5')	Total/NA	Solid	8021B	42892
880-23047-6	S-2 (2')	Total/NA	Solid	8021B	42892
880-23047-7	S-3 (0-1')	Total/NA	Solid	8021B	42892
880-23047-8	S-3 (1.5')	Total/NA	Solid	8021B	42892
880-23047-9	S-3 (2')	Total/NA	Solid	8021B	42892
880-23047-10	S-4 (0-1')	Total/NA	Solid	8021B	42892
880-23047-11	S-4 (1.5')	Total/NA	Solid	8021B	42892
880-23047-12	S-4 (2')	Total/NA	Solid	8021B	42892
880-23047-13	S-5 (0-1')	Total/NA	Solid	8021B	42892
880-23047-14	S-5 (1.5')	Total/NA	Solid	8021B	42892
880-23047-15	S-5 (2')	Total/NA	Solid	8021B	42892
880-23047-16	S-6 (0-1')	Total/NA	Solid	8021B	42892
880-23047-17	S-6 (1.5')	Total/NA	Solid	8021B	42892
880-23047-18	S-6 (2')	Total/NA	Solid	8021B	42892
880-23047-19	S-7 (0-1')	Total/NA	Solid	8021B	42892
880-23047-20	S-7 (1.5')	Total/NA	Solid	8021B	42892
MB 880-42812/5-A	Method Blank	Total/NA	Solid	8021B	42812
MB 880-42892/5-A	Method Blank	Total/NA	Solid	8021B	42892
LCS 880-42892/1-A	Lab Control Sample	Total/NA	Solid	8021B	42892
LCSD 880-42892/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42892
880-23047-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	42892
880-23047-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	42892

Analysis Batch: 42933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-21	S-7 (2')	Total/NA	Solid	8021B	42891
880-23047-22	S-8 (0-1')	Total/NA	Solid	8021B	42891
880-23047-23	S-8 (1.5')	Total/NA	Solid	8021B	42891
MB 880-42891/5-A	Method Blank	Total/NA	Solid	8021B	42891
LCS 880-42891/1-A	Lab Control Sample	Total/NA	Solid	8021B	42891
LCSD 880-42891/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42891
880-23045-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	42891
880-23045-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42891

Analysis Batch: 43007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-23047-2	S-1 (1'.5)	Total/NA	Solid	Total BTEX	
880-23047-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-23047-4	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-23047-5	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-23047-6	S-2 (2')	Total/NA	Solid	Total BTEX	
880-23047-7	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-23047-8	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-23047-9	S-3 (2')	Total/NA	Solid	Total BTEX	
880-23047-10	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-23047-11	S-4 (1.5')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 43007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-12	S-4 (2')	Total/NA	Solid	Total BTEX	
880-23047-13	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-23047-14	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-23047-15	S-5 (2')	Total/NA	Solid	Total BTEX	
880-23047-16	S-6 (0-1')	Total/NA	Solid	Total BTEX	
880-23047-17	S-6 (1.5')	Total/NA	Solid	Total BTEX	
880-23047-18	S-6 (2')	Total/NA	Solid	Total BTEX	
880-23047-19	S-7 (0-1')	Total/NA	Solid	Total BTEX	
880-23047-20	S-7 (1.5')	Total/NA	Solid	Total BTEX	
880-23047-21	S-7 (2')	Total/NA	Solid	Total BTEX	
880-23047-22	S-8 (0-1')	Total/NA	Solid	Total BTEX	
880-23047-23	S-8 (1.5')	Total/NA	Solid	Total BTEX	
880-23047-24	S-8 (2')	Total/NA	Solid	Total BTEX	

Analysis Batch: 43041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-24	S-8 (2')	Total/NA	Solid	8021B	42893
MB 880-42893/5-A	Method Blank	Total/NA	Solid	8021B	42893
LCS 880-42893/1-A	Lab Control Sample	Total/NA	Solid	8021B	42893
LCSD 880-42893/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42893
880-23050-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	42893
880-23050-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42893

GC Semi VOA

Prep Batch: 42763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-23047-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-23047-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-23047-4	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-23047-5	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-23047-6	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-23047-7	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-23047-8	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-23047-9	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-23047-10	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-23047-11	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-23047-12	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-23047-13	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-23047-14	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-23047-15	S-5 (2')	Total/NA	Solid	8015NM Prep	
880-23047-16	S-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-23047-17	S-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-23047-18	S-6 (2')	Total/NA	Solid	8015NM Prep	
880-23047-19	S-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-23047-20	S-7 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-42763/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42763/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42763/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23047-1 MS	S-1 (0-1')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 42763 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-1 MSD	S-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-1	S-1 (0-1')	Total/NA	Solid	8015B NM	42763
880-23047-2	S-1 (1'.5)	Total/NA	Solid	8015B NM	42763
880-23047-3	S-1 (2')	Total/NA	Solid	8015B NM	42763
880-23047-4	S-2 (0-1')	Total/NA	Solid	8015B NM	42763
880-23047-5	S-2 (1.5')	Total/NA	Solid	8015B NM	42763
880-23047-6	S-2 (2')	Total/NA	Solid	8015B NM	42763
880-23047-7	S-3 (0-1')	Total/NA	Solid	8015B NM	42763
880-23047-8	S-3 (1.5')	Total/NA	Solid	8015B NM	42763
880-23047-9	S-3 (2')	Total/NA	Solid	8015B NM	42763
880-23047-10	S-4 (0-1')	Total/NA	Solid	8015B NM	42763
880-23047-11	S-4 (1.5')	Total/NA	Solid	8015B NM	42763
880-23047-12	S-4 (2')	Total/NA	Solid	8015B NM	42763
880-23047-13	S-5 (0-1')	Total/NA	Solid	8015B NM	42763
880-23047-14	S-5 (1.5')	Total/NA	Solid	8015B NM	42763
880-23047-15	S-5 (2')	Total/NA	Solid	8015B NM	42763
880-23047-16	S-6 (0-1')	Total/NA	Solid	8015B NM	42763
880-23047-17	S-6 (1.5')	Total/NA	Solid	8015B NM	42763
880-23047-18	S-6 (2')	Total/NA	Solid	8015B NM	42763
880-23047-19	S-7 (0-1')	Total/NA	Solid	8015B NM	42763
880-23047-20	S-7 (1.5')	Total/NA	Solid	8015B NM	42763
MB 880-42763/1-A	Method Blank	Total/NA	Solid	8015B NM	42763
LCS 880-42763/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42763
LCSD 880-42763/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42763
880-23047-1 MS	S-1 (0-1')	Total/NA	Solid	8015B NM	42763
880-23047-1 MSD	S-1 (0-1')	Total/NA	Solid	8015B NM	42763

Prep Batch: 42834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-21	S-7 (2')	Total/NA	Solid	8015NM Prep	
880-23047-22	S-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-23047-23	S-8 (1.5')	Total/NA	Solid	8015NM Prep	
880-23047-24	S-8 (2')	Total/NA	Solid	8015NM Prep	
MB 880-42834/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42834/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23043-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-23043-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-21	S-7 (2')	Total/NA	Solid	8015B NM	42834
880-23047-22	S-8 (0-1')	Total/NA	Solid	8015B NM	42834
880-23047-23	S-8 (1.5')	Total/NA	Solid	8015B NM	42834
880-23047-24	S-8 (2')	Total/NA	Solid	8015B NM	42834
MB 880-42834/1-A	Method Blank	Total/NA	Solid	8015B NM	42834
LCS 880-42834/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42834
LCSD 880-42834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42834

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 42861 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23043-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	42834
880-23043-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	42834

Analysis Batch: 42902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-23047-2	S-1 (1'.5)	Total/NA	Solid	8015 NM	
880-23047-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-23047-4	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-23047-5	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-23047-6	S-2 (2')	Total/NA	Solid	8015 NM	
880-23047-7	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-23047-8	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-23047-9	S-3 (2')	Total/NA	Solid	8015 NM	
880-23047-10	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-23047-11	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-23047-12	S-4 (2')	Total/NA	Solid	8015 NM	
880-23047-13	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-23047-14	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-23047-15	S-5 (2')	Total/NA	Solid	8015 NM	
880-23047-16	S-6 (0-1')	Total/NA	Solid	8015 NM	
880-23047-17	S-6 (1.5')	Total/NA	Solid	8015 NM	
880-23047-18	S-6 (2')	Total/NA	Solid	8015 NM	
880-23047-19	S-7 (0-1')	Total/NA	Solid	8015 NM	
880-23047-20	S-7 (1.5')	Total/NA	Solid	8015 NM	
880-23047-21	S-7 (2')	Total/NA	Solid	8015 NM	
880-23047-22	S-8 (0-1')	Total/NA	Solid	8015 NM	
880-23047-23	S-8 (1.5')	Total/NA	Solid	8015 NM	
880-23047-24	S-8 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 42711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-23047-2	S-1 (1'.5)	Soluble	Solid	DI Leach	
880-23047-3	S-1 (2')	Soluble	Solid	DI Leach	
880-23047-4	S-2 (0-1')	Soluble	Solid	DI Leach	
880-23047-5	S-2 (1.5')	Soluble	Solid	DI Leach	
880-23047-6	S-2 (2')	Soluble	Solid	DI Leach	
880-23047-7	S-3 (0-1')	Soluble	Solid	DI Leach	
880-23047-8	S-3 (1.5')	Soluble	Solid	DI Leach	
880-23047-9	S-3 (2')	Soluble	Solid	DI Leach	
880-23047-10	S-4 (0-1')	Soluble	Solid	DI Leach	
880-23047-11	S-4 (1.5')	Soluble	Solid	DI Leach	
880-23047-12	S-4 (2')	Soluble	Solid	DI Leach	
880-23047-13	S-5 (0-1')	Soluble	Solid	DI Leach	
880-23047-14	S-5 (1.5')	Soluble	Solid	DI Leach	
880-23047-15	S-5 (2')	Soluble	Solid	DI Leach	
880-23047-16	S-6 (0-1')	Soluble	Solid	DI Leach	
880-23047-17	S-6 (1.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 42711 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-18	S-6 (2')	Soluble	Solid	DI Leach	
880-23047-19	S-7 (0-1')	Soluble	Solid	DI Leach	
MB 880-42711/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42711/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42711/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23047-10 MS	S-4 (0-1')	Soluble	Solid	DI Leach	
880-23047-10 MSD	S-4 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 42713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-20	S-7 (1.5')	Soluble	Solid	DI Leach	
880-23047-21	S-7 (2')	Soluble	Solid	DI Leach	
880-23047-22	S-8 (0-1')	Soluble	Solid	DI Leach	
880-23047-23	S-8 (1.5')	Soluble	Solid	DI Leach	
880-23047-24	S-8 (2')	Soluble	Solid	DI Leach	
MB 880-42713/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42713/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42713/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23047-20 MS	S-7 (1.5')	Soluble	Solid	DI Leach	
880-23047-20 MSD	S-7 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 42899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-1	S-1 (0-1')	Soluble	Solid	300.0	42711
880-23047-2	S-1 (1.5')	Soluble	Solid	300.0	42711
880-23047-3	S-1 (2')	Soluble	Solid	300.0	42711
880-23047-4	S-2 (0-1')	Soluble	Solid	300.0	42711
880-23047-5	S-2 (1.5')	Soluble	Solid	300.0	42711
880-23047-6	S-2 (2')	Soluble	Solid	300.0	42711
880-23047-7	S-3 (0-1')	Soluble	Solid	300.0	42711
880-23047-8	S-3 (1.5')	Soluble	Solid	300.0	42711
880-23047-9	S-3 (2')	Soluble	Solid	300.0	42711
880-23047-10	S-4 (0-1')	Soluble	Solid	300.0	42711
880-23047-11	S-4 (1.5')	Soluble	Solid	300.0	42711
880-23047-12	S-4 (2')	Soluble	Solid	300.0	42711
880-23047-13	S-5 (0-1')	Soluble	Solid	300.0	42711
880-23047-14	S-5 (1.5')	Soluble	Solid	300.0	42711
880-23047-15	S-5 (2')	Soluble	Solid	300.0	42711
880-23047-16	S-6 (0-1')	Soluble	Solid	300.0	42711
880-23047-17	S-6 (1.5')	Soluble	Solid	300.0	42711
880-23047-18	S-6 (2')	Soluble	Solid	300.0	42711
880-23047-19	S-7 (0-1')	Soluble	Solid	300.0	42711
MB 880-42711/1-A	Method Blank	Soluble	Solid	300.0	42711
LCS 880-42711/2-A	Lab Control Sample	Soluble	Solid	300.0	42711
LCSD 880-42711/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42711
880-23047-10 MS	S-4 (0-1')	Soluble	Solid	300.0	42711
880-23047-10 MSD	S-4 (0-1')	Soluble	Solid	300.0	42711

Analysis Batch: 42901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-20	S-7 (1.5')	Soluble	Solid	300.0	42713

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Analysis Batch: 42901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23047-21	S-7 (2')	Soluble	Solid	300.0	42713
880-23047-22	S-8 (0-1')	Soluble	Solid	300.0	42713
880-23047-23	S-8 (1.5')	Soluble	Solid	300.0	42713
880-23047-24	S-8 (2')	Soluble	Solid	300.0	42713
MB 880-42713/1-A	Method Blank	Soluble	Solid	300.0	42713
LCS 880-42713/2-A	Lab Control Sample	Soluble	Solid	300.0	42713
LCSD 880-42713/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42713
880-23047-20 MS	S-7 (1.5')	Soluble	Solid	300.0	42713
880-23047-20 MSD	S-7 (1.5')	Soluble	Solid	300.0	42713

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23047-1

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 23:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 18:13	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 15:48	CH	EET MID

Client Sample ID: S-1 (1'.5)

Lab Sample ID: 880-23047-2

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/30/22 23:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 19:21	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 15:52	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-23047-3

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 00:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 19:43	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 15:57	CH	EET MID

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

Lab Sample ID: 880-23047-4

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 00:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23047-4

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 20:05	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 13:21	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-23047-5

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 20:28	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 13:36	CH	EET MID

Client Sample ID: S-2 (2')

Lab Sample ID: 880-23047-6

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 01:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 20:50	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 13:40	CH	EET MID

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

Lab Sample ID: 880-23047-7

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 21:12	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23047-7

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 13:45	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-23047-8

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 21:34	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 13:50	CH	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-23047-9

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 02:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 21:57	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 13:54	CH	EET MID

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

Lab Sample ID: 880-23047-10

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 22:19	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 13:59	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-4 (1.5')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 03:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 23:04	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 14:13	CH	EET MID

Client Sample ID: S-4 (2')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 04:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 23:26	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 14:18	CH	EET MID

Client Sample ID: S-5 (0-1')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 04:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/28/22 23:48	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 14:32	CH	EET MID

Client Sample ID: S-5 (1.5')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 04:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-5 (1.5')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/29/22 00:09	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 14:37	CH	EET MID

Client Sample ID: S-5 (2')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 05:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/29/22 00:31	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 14:41	CH	EET MID

Client Sample ID: S-6 (0-1')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 05:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/29/22 00:52	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 14:46	CH	EET MID

Client Sample ID: S-6 (1.5')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 06:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/29/22 01:14	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-6 (1.5')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		1			42899	12/30/22 14:51	CH	EET MID

Client Sample ID: S-6 (2')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 06:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/29/22 01:36	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		5			42899	12/30/22 14:56	CH	EET MID

Client Sample ID: S-7 (0-1')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 06:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/29/22 01:58	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	42711	12/27/22 13:27	KS	EET MID
Soluble	Analysis	300.0		5			42899	12/30/22 15:00	CH	EET MID

Client Sample ID: S-7 (1.5')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42892	12/29/22 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42924	12/31/22 07:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/29/22 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42763	12/28/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42773	12/29/22 02:19	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	42713	12/27/22 13:29	KS	EET MID
Soluble	Analysis	300.0		5			42901	12/30/22 14:48	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-7 (2')

Lab Sample ID: 880-23047-21

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42891	12/29/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42933	12/30/22 21:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/30/22 12:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42834	12/29/22 08:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42861	12/29/22 20:59	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42713	12/27/22 13:29	KS	EET MID
Soluble	Analysis	300.0		1			42901	12/30/22 15:14	CH	EET MID

Client Sample ID: S-8 (0-1')

Lab Sample ID: 880-23047-22

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42891	12/29/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42933	12/30/22 22:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/30/22 12:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42834	12/29/22 08:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42861	12/29/22 21:21	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42713	12/27/22 13:29	KS	EET MID
Soluble	Analysis	300.0		1			42901	12/30/22 15:23	CH	EET MID

Client Sample ID: S-8 (1.5')

Lab Sample ID: 880-23047-23

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42891	12/29/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42933	12/30/22 22:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			43007	12/31/22 10:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42902	12/30/22 12:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42834	12/29/22 08:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42861	12/29/22 21:44	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42713	12/27/22 13:29	KS	EET MID
Soluble	Analysis	300.0		1			42901	12/30/22 15:32	CH	EET MID

Client Sample ID: S-8 (2')

Lab Sample ID: 880-23047-24

Date Collected: 12/21/22 00:00

Matrix: Solid

Date Received: 12/22/22 13:34

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	42893	12/29/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43041	01/03/23 22:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43007	01/04/23 09:12	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Client Sample ID: S-8 (2')

Date Collected: 12/21/22 00:00

Date Received: 12/22/22 13:34

Lab Sample ID: 880-23047-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42902	12/30/22 12:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42834	12/29/22 08:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42861	12/29/22 22:06	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	42713	12/27/22 13:29	KS	EET MID
Soluble	Analysis	300.0		1			42901	12/30/22 15:45	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: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Estill AD Federal #003 (10.03.2005)

Job ID: 880-23047-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23047-1	S-1 (0-1')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-2	S-1 (1'.5)	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-3	S-1 (2')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-4	S-2 (0-1')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-5	S-2 (1.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-6	S-2 (2')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-7	S-3 (0-1')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-8	S-3 (1.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-9	S-3 (2')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-10	S-4 (0-1')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-11	S-4 (1.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-12	S-4 (2')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-13	S-5 (0-1')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-14	S-5 (1.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-15	S-5 (2')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-16	S-6 (0-1')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-17	S-6 (1.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-18	S-6 (2')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-19	S-7 (0-1')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-20	S-7 (1.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-21	S-7 (2')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-22	S-8 (0-1')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-23	S-8 (1.5')	Solid	12/21/22 00:00	12/22/22 13:34
880-23047-24	S-8 (2')	Solid	12/21/22 00:00	12/22/22 13:34

Project Manager	Ashton Thielke	Bill to (if different)	Laci Lug
Company Name	Carmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Warrenfield St Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79701
Phone	432-813-5347	Email	laci.lug@coterra.com & ashton.thielke@coterra.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RCC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADaPT ☐ Other: _____	

Work Order No: 23647

[illegible][illegible]

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

Please send results to cmoehring@carmonaresources.com and mcarrmona@carmonaresources.com					
Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 		12/22/34	2		
3			4		
5			6		

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- 11
- 12
- 13
- 14

Work Order No: 23047

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Project Manager	Ashton Thielke	Bill to (if different)	Laci Lung
Company Name	Carmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Mainfield St, Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79701
Phone	432-813-5347	Email	laci.lung@coterra.com & ashton.thielke@coterra.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Estill AD Federal #003 (10 03 2005)	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes		
Project Number	1197															None NO	DI Water H ₂ O
Project Location	Eddy Co, NM	Due Date														Cool Cool	MeOH Me
Sampler's Name	CRM	TAT starts the day received by the lab if received by 4 30pm														HCL, HC	HNO ₃ HN
PO #																H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT		Temp Blank	Yes No	Well Ice	Yes No											H ₃ PO ₄ HP	
Received Intact	Yes No	Thermometer ID														NaHSO ₄ NABIS	
Cooler Custody Seals	Yes No N/A	Correction Factor														Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes No N/A	Temperature Reading														Zn Acetate+NaOH Zn	
Total Containers		Corrected Temperature														NaOH+Ascorbic Acid SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH										Sample Comments	
S-4 (1 5)	12/21/2022		X		Grab/	1	X	X	X									
S-4 (2)	12/21/2022		X		Grab/	1	X	X	X	X								
S-5 (0-1')	12/21/2022		X		Grab/	1	X	X	X	X								
S-5 (1 5')	12/21/2022		X		Grab/	1	X	X	X	X								
S-5 (2')	12/21/2022		X		Grab/	1	X	X	X	X								
S-6 (0-1')	12/21/2022		X		Grab/	1	X	X	X	X								
S-6 (1 5')	12/21/2022		X		Grab/	1	X	X	X	X								
S-6 (2')	12/21/2022		X		Grab/	1	X	X	X	X								
S-7 (0-1')	12/21/2022		X		Gr	1	X	X	X	X								
S-7 (1 5')	12/21/2022		X		Gr	1	X	X	X	X								

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		12/22 1:34			
5			6		

Work Order No: 23047

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Project Manager	Ashton Thielke	Bill to: (if different)	Laci Lugo
Company Name	Carmora Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Warrenfield St Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79701
Phone	432-813-5347	Email	laci.lugo@coterra.com & ashton.thielke@coterra.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADaPT ☐ Other: _____	

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-23047-1

SDG Number: Eddy Co, NM

Login Number: 23047

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Collier
H & R Enterprises
5120 W Kansas St
Hobbs, New Mexico 88242

Generated 5/17/2023 12:58:37 PM

JOB DESCRIPTION

ESTILL AD FED #003 (EST)
SDG NUMBER Eddy County NM

JOB NUMBER

890-4645-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

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



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

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Laboratory Job ID: 890-4645-1
SDG: Eddy County NM

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Definitions/Glossary

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Job ID: 890-4645-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4645-1

Receipt

The samples were received on 5/10/2023 11:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 17.0°C

Receipt Exceptions

The following samples analyzed were received and analyzed from an unpreserved bulk soil jar: BH-1 0-1' (890-4645-1), BH-1 2' (890-4645-2), BH-1 3' (890-4645-3), BH-1 4' (890-4645-4), BH-1 5' (890-4645-5), BH-1 6' (890-4645-6), BH-1 7' (890-4645-7), BH-1 8' (890-4645-8), BH-1 9' (890-4645-9), BH-1 10' (890-4645-10), BH-2 0-1' (890-4645-11), BH-2 2' (890-4645-12), BH-2 3' (890-4645-13), BH-2 4' (890-4645-14), BH-2 5' (890-4645-15), BH-2 6' (890-4645-16), BH-2 7' (890-4645-17), BH-2 8' (890-4645-18), BH-2 9' (890-4645-19) and BH-2 10' (890-4645-20).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53201 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-1 2' (890-4645-2), BH-1 4' (890-4645-4), BH-1 6' (890-4645-6) and BH-1 7' (890-4645-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53201 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-53201/20) and (CCV 880-53201/33).

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-1 9' (890-4645-9), BH-1 10' (890-4645-10), BH-2 0-1' (890-4645-11), BH-2 2' (890-4645-12), BH-2 3' (890-4645-13), BH-2 4' (890-4645-14), BH-2 5' (890-4645-15), BH-2 6' (890-4645-16), BH-2 7' (890-4645-17), BH-2 8' (890-4645-18), BH-2 9' (890-4645-19) and BH-2 10' (890-4645-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53487 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-1 0-1' (890-4645-1), (880-28331-A-1-H MS) and (880-28331-A-1-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: BH-1 6' (890-4645-6), BH-1 8' (890-4645-8) and BH-1 9' (890-4645-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-2 5' (890-4645-15), BH-2 7' (890-4645-17), BH-2 8' (890-4645-18), BH-2 9' (890-4645-19) and BH-2 10' (890-4645-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Case Narrative

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Job ID: 890-4645-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

HPLC/IC

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

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 0-1'

Lab Sample ID: 890-4645-1

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 0 - 1

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		05/16/23 13:46	05/16/23 20:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/23 13:46	05/16/23 20:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/23 13:46	05/16/23 20:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/23 13:46	05/16/23 20:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/23 13:46	05/16/23 20:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/23 13:46	05/16/23 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/16/23 13:46	05/16/23 20:47	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130	05/16/23 13:46	05/16/23 20:47	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			05/15/23 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 11:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 11:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	05/11/23 14:35	05/12/23 11:23	1
o-Terphenyl	88		70 - 130	05/11/23 14:35	05/12/23 11:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.9		4.95		mg/Kg			05/15/23 15:31	1

Client Sample ID: BH-1 2'

Lab Sample ID: 890-4645-2

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 2

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		05/11/23 11:03	05/12/23 12:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 12:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 12:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/11/23 11:03	05/12/23 12:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 12:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/11/23 11:03	05/12/23 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	05/11/23 11:03	05/12/23 12:52	1

Eurofins Carlsbad

Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 2'

Lab Sample ID: 890-4645-2

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	81		70 - 130	05/11/23 11:03	05/12/23 12:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/12/23 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 12:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 12:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/11/23 14:35	05/12/23 12:30	1
o-Terphenyl	83		70 - 130				05/11/23 14:35	05/12/23 12:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		4.99		mg/Kg			05/15/23 15:47	1

Client Sample ID: BH-1 3'

Lab Sample ID: 890-4645-3

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 3

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		05/11/23 11:03	05/12/23 13:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 13:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 13:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/11/23 11:03	05/12/23 13:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 13:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/11/23 11:03	05/12/23 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	05/11/23 11:03	05/12/23 13:18	1
1,4-Difluorobenzene (Surr)	77		70 - 130	05/11/23 11:03	05/12/23 13:18	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			05/12/23 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/23 12:58	1

Eurofins Carlsbad

Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 3'

Lab Sample ID: 890-4645-3

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 3

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		05/11/23 14:35	05/12/23 12:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/11/23 14:35	05/12/23 12:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/11/23 14:35	05/12/23 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/11/23 14:35	05/12/23 12:52	1
o-Terphenyl	82		70 - 130				05/11/23 14:35	05/12/23 12:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	226		5.00		mg/Kg			05/15/23 15:52	1

Client Sample ID: BH-1 4'

Lab Sample ID: 890-4645-4

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 4

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		05/11/23 11:03	05/12/23 13:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/11/23 11:03	05/12/23 13:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/11/23 11:03	05/12/23 13:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/11/23 11:03	05/12/23 13:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/11/23 11:03	05/12/23 13:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/11/23 11:03	05/12/23 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				05/11/23 11:03	05/12/23 13:45	1
1,4-Difluorobenzene (Surr)	78		70 - 130				05/11/23 11:03	05/12/23 13:45	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			05/12/23 15:40	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			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 13:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 13:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/11/23 14:35	05/12/23 13:13	1
o-Terphenyl	80		70 - 130				05/11/23 14:35	05/12/23 13:13	1

Eurofins Carlsbad

Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 4'

Lab Sample ID: 890-4645-4

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		4.97		mg/Kg			05/15/23 15:58	1

Client Sample ID: BH-1 5'

Lab Sample ID: 890-4645-5

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 5

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		05/11/23 11:03	05/12/23 14:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 14:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 14:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 14:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 14:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				05/11/23 11:03	05/12/23 14:11	1
1,4-Difluorobenzene (Surr)	81		70 - 130				05/11/23 11:03	05/12/23 14:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/12/23 15:40	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			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 13:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 13:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 13:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/11/23 14:35	05/12/23 13:35	1
o-Terphenyl	77		70 - 130				05/11/23 14:35	05/12/23 13:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		4.96		mg/Kg			05/15/23 16:03	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 6'

Lab Sample ID: 890-4645-6

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 6

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		05/11/23 11:03	05/12/23 14:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 14:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 14:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 14:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 14:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	05/11/23 11:03	05/12/23 14:37	1
1,4-Difluorobenzene (Surr)	87		70 - 130	05/11/23 11:03	05/12/23 14:37	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			05/12/23 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/11/23 14:35	05/12/23 13:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/11/23 14:35	05/12/23 13:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/11/23 14:35	05/12/23 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	05/11/23 14:35	05/12/23 13:57	1
o-Terphenyl	65	S1-	70 - 130	05/11/23 14:35	05/12/23 13:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.8		5.04		mg/Kg			05/15/23 16:19	1

Client Sample ID: BH-1 7'

Lab Sample ID: 890-4645-7

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 7

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		05/11/23 11:03	05/12/23 15:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 15:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 15:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/11/23 11:03	05/12/23 15:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 15:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/11/23 11:03	05/12/23 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	05/11/23 11:03	05/12/23 15:03	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 7'

Lab Sample ID: 890-4645-7

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 7

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	05/11/23 11:03	05/12/23 15:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/12/23 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 14:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 14:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/11/23 14:35	05/12/23 14:19	1
o-Terphenyl	71		70 - 130				05/11/23 14:35	05/12/23 14:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.9		5.00		mg/Kg			05/15/23 16:25	1

Client Sample ID: BH-1 8'

Lab Sample ID: 890-4645-8

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 8

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		05/11/23 11:03	05/12/23 15:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 15:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 15:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/11/23 11:03	05/12/23 15:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 15:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/11/23 11:03	05/12/23 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	05/11/23 11:03	05/12/23 15:29	1
1,4-Difluorobenzene (Surr)	72		70 - 130	05/11/23 11:03	05/12/23 15:29	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			05/15/23 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 12:58	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 8'

Lab Sample ID: 890-4645-8

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 8

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		05/11/23 14:35	05/12/23 14:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 14:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/11/23 14:35	05/12/23 14:40	1
o-Terphenyl	68	S1-	70 - 130				05/11/23 14:35	05/12/23 14:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.9		4.99		mg/Kg			05/15/23 16:30	1

Client Sample ID: BH-1 9'

Lab Sample ID: 890-4645-9

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 9

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		05/11/23 11:03	05/12/23 15:55	1
Toluene	0.00428		0.00202		mg/Kg		05/11/23 11:03	05/12/23 15:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/11/23 11:03	05/12/23 15:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/11/23 11:03	05/12/23 15:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/11/23 11:03	05/12/23 15:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/11/23 11:03	05/12/23 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				05/11/23 11:03	05/12/23 15:55	1
1,4-Difluorobenzene (Surr)	78		70 - 130				05/11/23 11:03	05/12/23 15:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00428		0.00404		mg/Kg			05/15/23 17:10	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			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 15:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 15:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				05/11/23 14:35	05/12/23 15:02	1
o-Terphenyl	63	S1-	70 - 130				05/11/23 14:35	05/12/23 15:02	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 9'

Lab Sample ID: 890-4645-9

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 9

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.3		4.97		mg/Kg			05/15/23 16:35	1

Client Sample ID: BH-1 10'

Lab Sample ID: 890-4645-10

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 16:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 16:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 16:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 16:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 16:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				05/11/23 11:03	05/12/23 16:21	1
1,4-Difluorobenzene (Surr)	80		70 - 130				05/11/23 11:03	05/12/23 16:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/23 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 15:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 15:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				05/11/23 14:35	05/12/23 15:24	1
o-Terphenyl	70		70 - 130				05/11/23 14:35	05/12/23 15:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.9		5.03		mg/Kg			05/15/23 16:41	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 0-1'

Lab Sample ID: 890-4645-11

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 0 - 1

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		05/11/23 11:03	05/12/23 18:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 18:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 18:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 18:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 18:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	05/11/23 11:03	05/12/23 18:07	1
1,4-Difluorobenzene (Surr)	72		70 - 130	05/11/23 11:03	05/12/23 18:07	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			05/15/23 17:10	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			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 16:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 16:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	05/11/23 14:35	05/12/23 16:07	1
o-Terphenyl	77		70 - 130	05/11/23 14:35	05/12/23 16:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.6		4.98		mg/Kg			05/15/23 16:46	1

Client Sample ID: BH-2 2'

Lab Sample ID: 890-4645-12

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 2

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		05/11/23 11:03	05/12/23 18:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 18:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 18:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/11/23 11:03	05/12/23 18:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 18:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/11/23 11:03	05/12/23 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	05/11/23 11:03	05/12/23 18:33	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 2'

Lab Sample ID: 890-4645-12

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	78		70 - 130	05/11/23 11:03	05/12/23 18:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/15/23 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 16:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 16:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/11/23 14:35	05/12/23 16:40	1
o-Terphenyl	78		70 - 130				05/11/23 14:35	05/12/23 16:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		4.96		mg/Kg			05/15/23 17:02	1

Client Sample ID: BH-2 3'

Lab Sample ID: 890-4645-13

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 3

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		05/11/23 11:03	05/12/23 18:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 18:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 18:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/11/23 11:03	05/12/23 18:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 18:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/11/23 11:03	05/12/23 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	05/11/23 11:03	05/12/23 18:59	1
1,4-Difluorobenzene (Surr)	79		70 - 130	05/11/23 11:03	05/12/23 18:59	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			05/15/23 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/23 12:58	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 3'

Lab Sample ID: 890-4645-13

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 3

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		05/11/23 14:35	05/12/23 17:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/11/23 14:35	05/12/23 17:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/11/23 14:35	05/12/23 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				05/11/23 14:35	05/12/23 17:02	1
o-Terphenyl	79		70 - 130				05/11/23 14:35	05/12/23 17:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.02		mg/Kg			05/15/23 17:08	1

Client Sample ID: BH-2 4'

Lab Sample ID: 890-4645-14

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 4

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		05/11/23 11:03	05/12/23 19:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 19:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 19:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/11/23 11:03	05/12/23 19:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 19:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/11/23 11:03	05/12/23 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				05/11/23 11:03	05/12/23 19:25	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/11/23 11:03	05/12/23 19:25	1

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			05/15/23 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 17:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 17:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/11/23 14:35	05/12/23 17:26	1
o-Terphenyl	80		70 - 130				05/11/23 14:35	05/12/23 17:26	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 4'

Lab Sample ID: 890-4645-14

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.96		mg/Kg			05/15/23 17:24	1

Client Sample ID: BH-2 5'

Lab Sample ID: 890-4645-15

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 5

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		05/11/23 11:03	05/12/23 19:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 19:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 19:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 19:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 19:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130				05/11/23 11:03	05/12/23 19:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130				05/11/23 11:03	05/12/23 19:51	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			05/15/23 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 17:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 17:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				05/11/23 14:35	05/12/23 17:48	1
o-Terphenyl	66	S1-	70 - 130				05/11/23 14:35	05/12/23 17:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.9		5.01		mg/Kg			05/15/23 17:29	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 6'

Lab Sample ID: 890-4645-16

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 6

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		05/11/23 11:03	05/12/23 20:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 20:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 20:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 20:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 20:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	05/11/23 11:03	05/12/23 20:18	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/11/23 11:03	05/12/23 20:18	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			05/15/23 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/11/23 14:35	05/12/23 18:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/11/23 14:35	05/12/23 18:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/11/23 14:35	05/12/23 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	05/11/23 14:35	05/12/23 18:09	1
o-Terphenyl	70		70 - 130	05/11/23 14:35	05/12/23 18:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.6		5.02		mg/Kg			05/15/23 17:34	1

Client Sample ID: BH-2 7'

Lab Sample ID: 890-4645-17

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 7

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		05/11/23 11:03	05/12/23 20:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 20:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 20:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/11/23 11:03	05/12/23 20:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 20:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/11/23 11:03	05/12/23 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	05/11/23 11:03	05/12/23 20:44	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 7'

Lab Sample ID: 890-4645-17

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 7

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	05/11/23 11:03	05/12/23 20:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/15/23 17:10	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			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 18:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 18:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				05/11/23 14:35	05/12/23 18:31	1
o-Terphenyl	67	S1-	70 - 130				05/11/23 14:35	05/12/23 18:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.8		5.05		mg/Kg			05/15/23 17:40	1

Client Sample ID: BH-2 8'

Lab Sample ID: 890-4645-18

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 8

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		05/11/23 11:03	05/12/23 21:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 21:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 21:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/11/23 11:03	05/12/23 21:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 21:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/11/23 11:03	05/12/23 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	05/11/23 11:03	05/12/23 21:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/11/23 11:03	05/12/23 21:10	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			05/15/23 17:10	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			05/15/23 12:58	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 8'

Lab Sample ID: 890-4645-18

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 8

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		05/11/23 14:35	05/12/23 18:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 18:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				05/11/23 14:35	05/12/23 18:52	1
o-Terphenyl	65	S1-	70 - 130				05/11/23 14:35	05/12/23 18:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.9		4.96		mg/Kg			05/15/23 17:45	1

Client Sample ID: BH-2 9'

Lab Sample ID: 890-4645-19

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 9

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		05/11/23 11:03	05/12/23 21:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 21:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 21:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/11/23 11:03	05/12/23 21:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/11/23 11:03	05/12/23 21:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/11/23 11:03	05/12/23 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130				05/11/23 11:03	05/12/23 21:36	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/11/23 11:03	05/12/23 21:36	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			05/15/23 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 19:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 19:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/11/23 14:35	05/12/23 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				05/11/23 14:35	05/12/23 19:14	1
o-Terphenyl	57	S1-	70 - 130				05/11/23 14:35	05/12/23 19:14	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 9'

Lab Sample ID: 890-4645-19

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 9

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.0		4.99		mg/Kg			05/15/23 17:50	1

Client Sample ID: BH-2 10'

Lab Sample ID: 890-4645-20

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Sample Depth: 10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 22:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 22:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 22:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 22:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/11/23 11:03	05/12/23 22:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/11/23 11:03	05/12/23 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				05/11/23 11:03	05/12/23 22:03	1
1,4-Difluorobenzene (Surr)	91		70 - 130				05/11/23 11:03	05/12/23 22:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/23 17:10	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			05/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 19:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 19:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				05/11/23 14:35	05/12/23 19:35	1
o-Terphenyl	63	S1-	70 - 130				05/11/23 14:35	05/12/23 19:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.9		5.03		mg/Kg			05/15/23 17:56	1

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Surrogate Summary

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-4645-1	BH-1 0-1'	91	58 S1-
890-4645-1 MS	BH-1 0-1'	124	80
890-4645-1 MSD	BH-1 0-1'	126	85
890-4645-2	BH-1 2'	147 S1+	81
890-4645-3	BH-1 3'	130	77
890-4645-4	BH-1 4'	141 S1+	78
890-4645-5	BH-1 5'	127	81
890-4645-6	BH-1 6'	155 S1+	87
890-4645-7	BH-1 7'	139 S1+	83
890-4645-8	BH-1 8'	125	72
890-4645-9	BH-1 9'	142 S1+	78
890-4645-10	BH-1 10'	133 S1+	80
890-4645-11	BH-2 0-1'	131 S1+	72
890-4645-12	BH-2 2'	140 S1+	78
890-4645-13	BH-2 3'	133 S1+	79
890-4645-14	BH-2 4'	141 S1+	90
890-4645-15	BH-2 5'	159 S1+	87
890-4645-16	BH-2 6'	137 S1+	92
890-4645-17	BH-2 7'	135 S1+	95
890-4645-18	BH-2 8'	138 S1+	92
890-4645-19	BH-2 9'	168 S1+	98
890-4645-20	BH-2 10'	146 S1+	91
LCS 880-53130/1-A	Lab Control Sample	104	81
LCS 880-53489/1-A	Lab Control Sample	109	85
LCSD 880-53130/2-A	Lab Control Sample Dup	100	83
LCSD 880-53489/2-A	Lab Control Sample Dup	108	100
MB 880-53130/5-A	Method Blank	73	77
MB 880-53489/5-A	Method Blank	71	87
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-4645-1	BH-1 0-1'	113	88
890-4645-1 MS	BH-1 0-1'	113	80
890-4645-1 MSD	BH-1 0-1'	110	78
890-4645-2	BH-1 2'	109	83
890-4645-3	BH-1 3'	109	82
890-4645-4	BH-1 4'	106	80
890-4645-5	BH-1 5'	105	77
890-4645-6	BH-1 6'	91	65 S1-
890-4645-7	BH-1 7'	97	71
890-4645-8	BH-1 8'	95	68 S1-
890-4645-9	BH-1 9'	88	63 S1-

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Surrogate Summary

Client: H & R Enterprises

Job ID: 890-4645-1

Project/Site: ESTILL AD FED #003 (EST)

SDG: Eddy County NM

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4645-10	BH-1 10'	96	70
890-4645-11	BH-2 0-1'	102	77
890-4645-12	BH-2 2'	103	78
890-4645-13	BH-2 3'	104	79
890-4645-14	BH-2 4'	105	80
890-4645-15	BH-2 5'	90	66 S1-
890-4645-16	BH-2 6'	97	70
890-4645-17	BH-2 7'	93	67 S1-
890-4645-18	BH-2 8'	90	65 S1-
890-4645-19	BH-2 9'	81	57 S1-
890-4645-20	BH-2 10'	88	63 S1-
LCS 880-53163/2-A	Lab Control Sample	96	74
LCSD 880-53163/3-A	Lab Control Sample Dup	107	82
MB 880-53163/1-A	Method Blank	106	83
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53130/5-A

Matrix: Solid

Analysis Batch: 53201

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 11:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 11:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 11:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/11/23 11:03	05/12/23 11:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/23 11:03	05/12/23 11:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/11/23 11:03	05/12/23 11:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	05/11/23 11:03	05/12/23 11:59	1
1,4-Difluorobenzene (Surr)	77		70 - 130	05/11/23 11:03	05/12/23 11:59	1

Lab Sample ID: LCS 880-53130/1-A

Matrix: Solid

Analysis Batch: 53201

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1102		mg/Kg		110	70 - 130
Toluene	0.100	0.1174		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1063		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2384		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: LCSD 880-53130/2-A

Matrix: Solid

Analysis Batch: 53201

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53130

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1088		mg/Kg		109	70 - 130	1	35
Toluene	0.100	0.1206		mg/Kg		121	70 - 130	3	35
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2370		mg/Kg		119	70 - 130	1	35
o-Xylene	0.100	0.1066		mg/Kg		107	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 890-4645-1 MS

Matrix: Solid

Analysis Batch: 53201

Client Sample ID: BH-1 0-1'

Prep Type: Total/NA

Prep Batch: 53130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00928		0.0996	0.1183		mg/Kg		109	70 - 130
Toluene	0.0250		0.0996	0.1273		mg/Kg		103	70 - 130

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QC Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

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

Lab Sample ID: 890-4645-1 MS

Matrix: Solid

Analysis Batch: 53201

Client Sample ID: BH-1 0-1'

Prep Type: Total/NA

Prep Batch: 53130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00223		0.0996	0.09912		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.00510		0.199	0.2214		mg/Kg		109	70 - 130
o-Xylene	0.00203		0.0996	0.09899		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: 890-4645-1 MSD

Matrix: Solid

Analysis Batch: 53201

Client Sample ID: BH-1 0-1'

Prep Type: Total/NA

Prep Batch: 53130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00928		0.0990	0.1150		mg/Kg		107	70 - 130	3	35
Toluene	0.0250		0.0990	0.1201		mg/Kg		96	70 - 130	6	35
Ethylbenzene	0.00223		0.0990	0.09778		mg/Kg		97	70 - 130	1	35
m-Xylene & p-Xylene	0.00510		0.198	0.2189		mg/Kg		108	70 - 130	1	35
o-Xylene	0.00203		0.0990	0.09785		mg/Kg		97	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: MB 880-53489/5-A

Matrix: Solid

Analysis Batch: 53487

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/23 13:46	05/16/23 15:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/23 13:46	05/16/23 15:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 13:46	05/16/23 15:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/23 13:46	05/16/23 15:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/23 13:46	05/16/23 15:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/23 13:46	05/16/23 15:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	05/16/23 13:46	05/16/23 15:59	1
1,4-Difluorobenzene (Surr)	87		70 - 130	05/16/23 13:46	05/16/23 15:59	1

Lab Sample ID: LCS 880-53489/1-A

Matrix: Solid

Analysis Batch: 53487

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1237		mg/Kg		124	70 - 130
Toluene	0.100	0.1177		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1201		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2445		mg/Kg		122	70 - 130

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QC Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-53489/1-A

Matrix: Solid

Analysis Batch: 53487

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1210		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-53489/2-A

Matrix: Solid

Analysis Batch: 53487

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53489

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1256		mg/Kg		126	70 - 130	2	35
Toluene	0.100	0.1211		mg/Kg		121	70 - 130	3	35
Ethylbenzene	0.100	0.1261		mg/Kg		126	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2560		mg/Kg		128	70 - 130	5	35
o-Xylene	0.100	0.1293		mg/Kg		129	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-53163/1-A

Matrix: Solid

Analysis Batch: 53191

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53163

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		05/11/23 14:35	05/12/23 08:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 08:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/23 14:35	05/12/23 08:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/11/23 14:35	05/12/23 08:49	1
o-Terphenyl	83		70 - 130	05/11/23 14:35	05/12/23 08:49	1

Lab Sample ID: LCS 880-53163/2-A

Matrix: Solid

Analysis Batch: 53191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	868.0		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	782.4		mg/Kg		78	70 - 130

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QC Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-53163/2-A

Matrix: Solid

Analysis Batch: 53191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53163

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: LCSD 880-53163/3-A

Matrix: Solid

Analysis Batch: 53191

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53163

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	821.1		mg/Kg		82	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	797.1		mg/Kg		80	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-4645-1 MS

Matrix: Solid

Analysis Batch: 53191

Client Sample ID: BH-1 0-1'

Prep Type: Total/NA

Prep Batch: 53163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1054		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	822.4		mg/Kg		82	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 890-4645-1 MSD

Matrix: Solid

Analysis Batch: 53191

Client Sample ID: BH-1 0-1'

Prep Type: Total/NA

Prep Batch: 53163

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	998	1022		mg/Kg		101	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	791.7		mg/Kg		79	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	78		70 - 130

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QC Sample Results

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53270/1-A

Matrix: Solid

Analysis Batch: 53392

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			05/15/23 15:15	1

Lab Sample ID: LCS 880-53270/2-A

Matrix: Solid

Analysis Batch: 53392

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-53270/3-A

Matrix: Solid

Analysis Batch: 53392

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	244.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-4645-1 MS

Matrix: Solid

Analysis Batch: 53392

Client Sample ID: BH-1 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	58.9		248	290.2		mg/Kg		93	90 - 110

Lab Sample ID: 890-4645-1 MSD

Matrix: Solid

Analysis Batch: 53392

Client Sample ID: BH-1 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	58.9		248	290.3		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-4645-11 MS

Matrix: Solid

Analysis Batch: 53392

Client Sample ID: BH-2 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	57.6		249	301.8		mg/Kg		98	90 - 110

Lab Sample ID: 890-4645-11 MSD

Matrix: Solid

Analysis Batch: 53392

Client Sample ID: BH-2 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	57.6		249	301.5		mg/Kg		98	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

GC VOA

Prep Batch: 53130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-2	BH-1 2'	Total/NA	Solid	5035	
890-4645-3	BH-1 3'	Total/NA	Solid	5035	
890-4645-4	BH-1 4'	Total/NA	Solid	5035	
890-4645-5	BH-1 5'	Total/NA	Solid	5035	
890-4645-6	BH-1 6'	Total/NA	Solid	5035	
890-4645-7	BH-1 7'	Total/NA	Solid	5035	
890-4645-8	BH-1 8'	Total/NA	Solid	5035	
890-4645-9	BH-1 9'	Total/NA	Solid	5035	
890-4645-10	BH-1 10'	Total/NA	Solid	5035	
890-4645-11	BH-2 0-1'	Total/NA	Solid	5035	
890-4645-12	BH-2 2'	Total/NA	Solid	5035	
890-4645-13	BH-2 3'	Total/NA	Solid	5035	
890-4645-14	BH-2 4'	Total/NA	Solid	5035	
890-4645-15	BH-2 5'	Total/NA	Solid	5035	
890-4645-16	BH-2 6'	Total/NA	Solid	5035	
890-4645-17	BH-2 7'	Total/NA	Solid	5035	
890-4645-18	BH-2 8'	Total/NA	Solid	5035	
890-4645-19	BH-2 9'	Total/NA	Solid	5035	
890-4645-20	BH-2 10'	Total/NA	Solid	5035	
MB 880-53130/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53130/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53130/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4645-1 MS	BH-1 0-1'	Total/NA	Solid	5035	
890-4645-1 MSD	BH-1 0-1'	Total/NA	Solid	5035	

Analysis Batch: 53201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-2	BH-1 2'	Total/NA	Solid	8021B	53130
890-4645-3	BH-1 3'	Total/NA	Solid	8021B	53130
890-4645-4	BH-1 4'	Total/NA	Solid	8021B	53130
890-4645-5	BH-1 5'	Total/NA	Solid	8021B	53130
890-4645-6	BH-1 6'	Total/NA	Solid	8021B	53130
890-4645-7	BH-1 7'	Total/NA	Solid	8021B	53130
890-4645-8	BH-1 8'	Total/NA	Solid	8021B	53130
890-4645-9	BH-1 9'	Total/NA	Solid	8021B	53130
890-4645-10	BH-1 10'	Total/NA	Solid	8021B	53130
890-4645-11	BH-2 0-1'	Total/NA	Solid	8021B	53130
890-4645-12	BH-2 2'	Total/NA	Solid	8021B	53130
890-4645-13	BH-2 3'	Total/NA	Solid	8021B	53130
890-4645-14	BH-2 4'	Total/NA	Solid	8021B	53130
890-4645-15	BH-2 5'	Total/NA	Solid	8021B	53130
890-4645-16	BH-2 6'	Total/NA	Solid	8021B	53130
890-4645-17	BH-2 7'	Total/NA	Solid	8021B	53130
890-4645-18	BH-2 8'	Total/NA	Solid	8021B	53130
890-4645-19	BH-2 9'	Total/NA	Solid	8021B	53130
890-4645-20	BH-2 10'	Total/NA	Solid	8021B	53130
MB 880-53130/5-A	Method Blank	Total/NA	Solid	8021B	53130
LCS 880-53130/1-A	Lab Control Sample	Total/NA	Solid	8021B	53130
LCSD 880-53130/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53130
890-4645-1 MS	BH-1 0-1'	Total/NA	Solid	8021B	53130
890-4645-1 MSD	BH-1 0-1'	Total/NA	Solid	8021B	53130

Eurofins Carlsbad

QC Association Summary

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 53285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-1	BH-1 0-1'	Total/NA	Solid	Total BTEX	
890-4645-2	BH-1 2'	Total/NA	Solid	Total BTEX	
890-4645-3	BH-1 3'	Total/NA	Solid	Total BTEX	
890-4645-4	BH-1 4'	Total/NA	Solid	Total BTEX	
890-4645-5	BH-1 5'	Total/NA	Solid	Total BTEX	
890-4645-6	BH-1 6'	Total/NA	Solid	Total BTEX	
890-4645-7	BH-1 7'	Total/NA	Solid	Total BTEX	
890-4645-8	BH-1 8'	Total/NA	Solid	Total BTEX	
890-4645-9	BH-1 9'	Total/NA	Solid	Total BTEX	
890-4645-10	BH-1 10'	Total/NA	Solid	Total BTEX	
890-4645-11	BH-2 0-1'	Total/NA	Solid	Total BTEX	
890-4645-12	BH-2 2'	Total/NA	Solid	Total BTEX	
890-4645-13	BH-2 3'	Total/NA	Solid	Total BTEX	
890-4645-14	BH-2 4'	Total/NA	Solid	Total BTEX	
890-4645-15	BH-2 5'	Total/NA	Solid	Total BTEX	
890-4645-16	BH-2 6'	Total/NA	Solid	Total BTEX	
890-4645-17	BH-2 7'	Total/NA	Solid	Total BTEX	
890-4645-18	BH-2 8'	Total/NA	Solid	Total BTEX	
890-4645-19	BH-2 9'	Total/NA	Solid	Total BTEX	
890-4645-20	BH-2 10'	Total/NA	Solid	Total BTEX	

Analysis Batch: 53487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-1	BH-1 0-1'	Total/NA	Solid	8021B	53489
MB 880-53489/5-A	Method Blank	Total/NA	Solid	8021B	53489
LCS 880-53489/1-A	Lab Control Sample	Total/NA	Solid	8021B	53489
LCSD 880-53489/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53489

Prep Batch: 53489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-1	BH-1 0-1'	Total/NA	Solid	5035	
MB 880-53489/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53489/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53489/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 53163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-1	BH-1 0-1'	Total/NA	Solid	8015NM Prep	
890-4645-2	BH-1 2'	Total/NA	Solid	8015NM Prep	
890-4645-3	BH-1 3'	Total/NA	Solid	8015NM Prep	
890-4645-4	BH-1 4'	Total/NA	Solid	8015NM Prep	
890-4645-5	BH-1 5'	Total/NA	Solid	8015NM Prep	
890-4645-6	BH-1 6'	Total/NA	Solid	8015NM Prep	
890-4645-7	BH-1 7'	Total/NA	Solid	8015NM Prep	
890-4645-8	BH-1 8'	Total/NA	Solid	8015NM Prep	
890-4645-9	BH-1 9'	Total/NA	Solid	8015NM Prep	
890-4645-10	BH-1 10'	Total/NA	Solid	8015NM Prep	
890-4645-11	BH-2 0-1'	Total/NA	Solid	8015NM Prep	
890-4645-12	BH-2 2'	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Prep Batch: 53163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-13	BH-2 3'	Total/NA	Solid	8015NM Prep	
890-4645-14	BH-2 4'	Total/NA	Solid	8015NM Prep	
890-4645-15	BH-2 5'	Total/NA	Solid	8015NM Prep	
890-4645-16	BH-2 6'	Total/NA	Solid	8015NM Prep	
890-4645-17	BH-2 7'	Total/NA	Solid	8015NM Prep	
890-4645-18	BH-2 8'	Total/NA	Solid	8015NM Prep	
890-4645-19	BH-2 9'	Total/NA	Solid	8015NM Prep	
890-4645-20	BH-2 10'	Total/NA	Solid	8015NM Prep	
MB 880-53163/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53163/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53163/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4645-1 MS	BH-1 0-1'	Total/NA	Solid	8015NM Prep	
890-4645-1 MSD	BH-1 0-1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-1	BH-1 0-1'	Total/NA	Solid	8015B NM	53163
890-4645-2	BH-1 2'	Total/NA	Solid	8015B NM	53163
890-4645-3	BH-1 3'	Total/NA	Solid	8015B NM	53163
890-4645-4	BH-1 4'	Total/NA	Solid	8015B NM	53163
890-4645-5	BH-1 5'	Total/NA	Solid	8015B NM	53163
890-4645-6	BH-1 6'	Total/NA	Solid	8015B NM	53163
890-4645-7	BH-1 7'	Total/NA	Solid	8015B NM	53163
890-4645-8	BH-1 8'	Total/NA	Solid	8015B NM	53163
890-4645-9	BH-1 9'	Total/NA	Solid	8015B NM	53163
890-4645-10	BH-1 10'	Total/NA	Solid	8015B NM	53163
890-4645-11	BH-2 0-1'	Total/NA	Solid	8015B NM	53163
890-4645-12	BH-2 2'	Total/NA	Solid	8015B NM	53163
890-4645-13	BH-2 3'	Total/NA	Solid	8015B NM	53163
890-4645-14	BH-2 4'	Total/NA	Solid	8015B NM	53163
890-4645-15	BH-2 5'	Total/NA	Solid	8015B NM	53163
890-4645-16	BH-2 6'	Total/NA	Solid	8015B NM	53163
890-4645-17	BH-2 7'	Total/NA	Solid	8015B NM	53163
890-4645-18	BH-2 8'	Total/NA	Solid	8015B NM	53163
890-4645-19	BH-2 9'	Total/NA	Solid	8015B NM	53163
890-4645-20	BH-2 10'	Total/NA	Solid	8015B NM	53163
MB 880-53163/1-A	Method Blank	Total/NA	Solid	8015B NM	53163
LCS 880-53163/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53163
LCSD 880-53163/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53163
890-4645-1 MS	BH-1 0-1'	Total/NA	Solid	8015B NM	53163
890-4645-1 MSD	BH-1 0-1'	Total/NA	Solid	8015B NM	53163

Analysis Batch: 53380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-1	BH-1 0-1'	Total/NA	Solid	8015 NM	
890-4645-2	BH-1 2'	Total/NA	Solid	8015 NM	
890-4645-3	BH-1 3'	Total/NA	Solid	8015 NM	
890-4645-4	BH-1 4'	Total/NA	Solid	8015 NM	
890-4645-5	BH-1 5'	Total/NA	Solid	8015 NM	
890-4645-6	BH-1 6'	Total/NA	Solid	8015 NM	
890-4645-7	BH-1 7'	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 53380 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-8	BH-1 8'	Total/NA	Solid	8015 NM	
890-4645-9	BH-1 9'	Total/NA	Solid	8015 NM	
890-4645-10	BH-1 10'	Total/NA	Solid	8015 NM	
890-4645-11	BH-2 0-1'	Total/NA	Solid	8015 NM	
890-4645-12	BH-2 2'	Total/NA	Solid	8015 NM	
890-4645-13	BH-2 3'	Total/NA	Solid	8015 NM	
890-4645-14	BH-2 4'	Total/NA	Solid	8015 NM	
890-4645-15	BH-2 5'	Total/NA	Solid	8015 NM	
890-4645-16	BH-2 6'	Total/NA	Solid	8015 NM	
890-4645-17	BH-2 7'	Total/NA	Solid	8015 NM	
890-4645-18	BH-2 8'	Total/NA	Solid	8015 NM	
890-4645-19	BH-2 9'	Total/NA	Solid	8015 NM	
890-4645-20	BH-2 10'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-1	BH-1 0-1'	Soluble	Solid	DI Leach	
890-4645-2	BH-1 2'	Soluble	Solid	DI Leach	
890-4645-3	BH-1 3'	Soluble	Solid	DI Leach	
890-4645-4	BH-1 4'	Soluble	Solid	DI Leach	
890-4645-5	BH-1 5'	Soluble	Solid	DI Leach	
890-4645-6	BH-1 6'	Soluble	Solid	DI Leach	
890-4645-7	BH-1 7'	Soluble	Solid	DI Leach	
890-4645-8	BH-1 8'	Soluble	Solid	DI Leach	
890-4645-9	BH-1 9'	Soluble	Solid	DI Leach	
890-4645-10	BH-1 10'	Soluble	Solid	DI Leach	
890-4645-11	BH-2 0-1'	Soluble	Solid	DI Leach	
890-4645-12	BH-2 2'	Soluble	Solid	DI Leach	
890-4645-13	BH-2 3'	Soluble	Solid	DI Leach	
890-4645-14	BH-2 4'	Soluble	Solid	DI Leach	
890-4645-15	BH-2 5'	Soluble	Solid	DI Leach	
890-4645-16	BH-2 6'	Soluble	Solid	DI Leach	
890-4645-17	BH-2 7'	Soluble	Solid	DI Leach	
890-4645-18	BH-2 8'	Soluble	Solid	DI Leach	
890-4645-19	BH-2 9'	Soluble	Solid	DI Leach	
890-4645-20	BH-2 10'	Soluble	Solid	DI Leach	
MB 880-53270/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53270/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53270/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4645-1 MS	BH-1 0-1'	Soluble	Solid	DI Leach	
890-4645-1 MSD	BH-1 0-1'	Soluble	Solid	DI Leach	
890-4645-11 MS	BH-2 0-1'	Soluble	Solid	DI Leach	
890-4645-11 MSD	BH-2 0-1'	Soluble	Solid	DI Leach	

Analysis Batch: 53392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-1	BH-1 0-1'	Soluble	Solid	300.0	53270
890-4645-2	BH-1 2'	Soluble	Solid	300.0	53270
890-4645-3	BH-1 3'	Soluble	Solid	300.0	53270

Eurofins Carlsbad

QC Association Summary

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 53392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4645-4	BH-1 4'	Soluble	Solid	300.0	53270
890-4645-5	BH-1 5'	Soluble	Solid	300.0	53270
890-4645-6	BH-1 6'	Soluble	Solid	300.0	53270
890-4645-7	BH-1 7'	Soluble	Solid	300.0	53270
890-4645-8	BH-1 8'	Soluble	Solid	300.0	53270
890-4645-9	BH-1 9'	Soluble	Solid	300.0	53270
890-4645-10	BH-1 10'	Soluble	Solid	300.0	53270
890-4645-11	BH-2 0-1'	Soluble	Solid	300.0	53270
890-4645-12	BH-2 2'	Soluble	Solid	300.0	53270
890-4645-13	BH-2 3'	Soluble	Solid	300.0	53270
890-4645-14	BH-2 4'	Soluble	Solid	300.0	53270
890-4645-15	BH-2 5'	Soluble	Solid	300.0	53270
890-4645-16	BH-2 6'	Soluble	Solid	300.0	53270
890-4645-17	BH-2 7'	Soluble	Solid	300.0	53270
890-4645-18	BH-2 8'	Soluble	Solid	300.0	53270
890-4645-19	BH-2 9'	Soluble	Solid	300.0	53270
890-4645-20	BH-2 10'	Soluble	Solid	300.0	53270
MB 880-53270/1-A	Method Blank	Soluble	Solid	300.0	53270
LCS 880-53270/2-A	Lab Control Sample	Soluble	Solid	300.0	53270
LCSD 880-53270/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53270
890-4645-1 MS	BH-1 0-1'	Soluble	Solid	300.0	53270
890-4645-1 MSD	BH-1 0-1'	Soluble	Solid	300.0	53270
890-4645-11 MS	BH-2 0-1'	Soluble	Solid	300.0	53270
890-4645-11 MSD	BH-2 0-1'	Soluble	Solid	300.0	53270

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 0-1'

Lab Sample ID: 890-4645-1

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53489	05/16/23 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53487	05/16/23 20:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 11:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 15:31	SMC	EET MID

Client Sample ID: BH-1 2'

Lab Sample ID: 890-4645-2

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/12/23 15:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 12:30	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 15:47	SMC	EET MID

Client Sample ID: BH-1 3'

Lab Sample ID: 890-4645-3

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/12/23 15:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 12:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 15:52	SMC	EET MID

Client Sample ID: BH-1 4'

Lab Sample ID: 890-4645-4

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/12/23 15:40	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 4'

Lab Sample ID: 890-4645-4

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 13:13	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 15:58	SMC	EET MID

Client Sample ID: BH-1 5'

Lab Sample ID: 890-4645-5

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/12/23 15:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 13:35	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 16:03	SMC	EET MID

Client Sample ID: BH-1 6'

Lab Sample ID: 890-4645-6

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 14:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/12/23 15:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 13:57	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 16:19	SMC	EET MID

Client Sample ID: BH-1 7'

Lab Sample ID: 890-4645-7

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 15:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/12/23 15:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 14:19	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-1 7'

Lab Sample ID: 890-4645-7

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 16:25	SMC	EET MID

Client Sample ID: BH-1 8'

Lab Sample ID: 890-4645-8

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 15:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 14:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 16:30	SMC	EET MID

Client Sample ID: BH-1 9'

Lab Sample ID: 890-4645-9

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 15:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 15:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 16:35	SMC	EET MID

Client Sample ID: BH-1 10'

Lab Sample ID: 890-4645-10

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 16:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 15:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 16:41	SMC	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 0-1'

Lab Sample ID: 890-4645-11

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 16:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 16:46	SMC	EET MID

Client Sample ID: BH-2 2'

Lab Sample ID: 890-4645-12

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 18:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 16:40	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 17:02	SMC	EET MID

Client Sample ID: BH-2 3'

Lab Sample ID: 890-4645-13

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 18:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 17:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 17:08	SMC	EET MID

Client Sample ID: BH-2 4'

Lab Sample ID: 890-4645-14

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 4'

Lab Sample ID: 890-4645-14

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 17:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 17:24	SMC	EET MID

Client Sample ID: BH-2 5'

Lab Sample ID: 890-4645-15

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 19:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 17:48	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 17:29	SMC	EET MID

Client Sample ID: BH-2 6'

Lab Sample ID: 890-4645-16

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 18:09	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 17:34	SMC	EET MID

Client Sample ID: BH-2 7'

Lab Sample ID: 890-4645-17

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 18:31	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Client Sample ID: BH-2 7'

Lab Sample ID: 890-4645-17

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 17:40	SMC	EET MID

Client Sample ID: BH-2 8'

Lab Sample ID: 890-4645-18

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 21:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 18:52	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 17:45	SMC	EET MID

Client Sample ID: BH-2 9'

Lab Sample ID: 890-4645-19

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 21:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 19:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 17:50	SMC	EET MID

Client Sample ID: BH-2 10'

Lab Sample ID: 890-4645-20

Date Collected: 05/10/23 00:00

Matrix: Solid

Date Received: 05/10/23 11:20

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	53130	05/11/23 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53201	05/12/23 22:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53285	05/15/23 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			53380	05/15/23 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.010 g	10 mL	53163	05/11/23 14:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53191	05/12/23 19:35	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53270	05/12/23 14:09	KS	EET MID
Soluble	Analysis	300.0		1			53392	05/15/23 17:56	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

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

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

Accreditation/Certification Summary

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	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

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

Method Summary

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: H & R Enterprises
Project/Site: ESTILL AD FED #003 (EST)

Job ID: 890-4645-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4645-1	BH-1 0-1'	Solid	05/10/23 00:00	05/10/23 11:20	0 - 1
890-4645-2	BH-1 2'	Solid	05/10/23 00:00	05/10/23 11:20	2
890-4645-3	BH-1 3'	Solid	05/10/23 00:00	05/10/23 11:20	3
890-4645-4	BH-1 4'	Solid	05/10/23 00:00	05/10/23 11:20	4
890-4645-5	BH-1 5'	Solid	05/10/23 00:00	05/10/23 11:20	5
890-4645-6	BH-1 6'	Solid	05/10/23 00:00	05/10/23 11:20	6
890-4645-7	BH-1 7'	Solid	05/10/23 00:00	05/10/23 11:20	7
890-4645-8	BH-1 8'	Solid	05/10/23 00:00	05/10/23 11:20	8
890-4645-9	BH-1 9'	Solid	05/10/23 00:00	05/10/23 11:20	9
890-4645-10	BH-1 10'	Solid	05/10/23 00:00	05/10/23 11:20	10
890-4645-11	BH-2 0-1'	Solid	05/10/23 00:00	05/10/23 11:20	0 - 1
890-4645-12	BH-2 2'	Solid	05/10/23 00:00	05/10/23 11:20	2
890-4645-13	BH-2 3'	Solid	05/10/23 00:00	05/10/23 11:20	3
890-4645-14	BH-2 4'	Solid	05/10/23 00:00	05/10/23 11:20	4
890-4645-15	BH-2 5'	Solid	05/10/23 00:00	05/10/23 11:20	5
890-4645-16	BH-2 6'	Solid	05/10/23 00:00	05/10/23 11:20	6
890-4645-17	BH-2 7'	Solid	05/10/23 00:00	05/10/23 11:20	7
890-4645-18	BH-2 8'	Solid	05/10/23 00:00	05/10/23 11:20	8
890-4645-19	BH-2 9'	Solid	05/10/23 00:00	05/10/23 11:20	9
890-4645-20	BH-2 10'	Solid	05/10/23 00:00	05/10/23 11:20	10



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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Project Manager:	M. COLLIER	Bill to: (if different)	
Company Name:	HAR ENTERPRISES	Company Name:	CIMAREX ENERGY
Address:		Address:	ATTN: LACI WILK
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Work Order Comments			
Program:	UST/PST ☐ RRP ☐ Brownfields ☐ RRC ☐ Superfund ☐		
State of Project:			
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐		
Deliverables:	EDD ☐ ADAPT ☐ Other: _____		

Project Name:	ESTIL AD FEO #003		Turn Around	Pres. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	(EST)		☒ Routine ☐ Rush				None: NO DI Water: H ₂ O
Project Location:	EDDY COUNTY, NM		Due Date:				Cool: Cool MeOH: Me
Sampler's Name:	R. BELL		TAT starts the day received by the lab, if received by 4:30pm				HCL: HC HNO: HN
P.O. #:			Wetice: ☒ Yes ☐ No				I ₂ SO ₄ : H ₂ PO ₄ : HP
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☐ No	Thermometer ID: 1000007	Corrected Temperature: 17.0				aHSO ₄ : NABIS a ₂ S ₂ O ₃ : NaSO ₃
Samples Received Intact:	Yes ☒ No ☐ N/A	Correction Factor:					n Acetate+NaOH: Zn aOH+Ascorbic Acid: SAC
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Temperature Reading:					
Sample Custody Seals:	Yes ☐ No ☒ N/A	Corrected Temperature:					
Total Containers:							

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	BTEX	CHLORIDES	Sample Comments
BH-1 0-1'	SOIL	5-10-23		0-1'	5'	1	X	X	X	
2'				2'						
3'				3'						
4'				4'						
5'				5'						
6'				6'						
7'				7'						
8'				8'						
9'				9'						
10'				10'						



890-4645 Chain of Custody

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5-10-23 1120			



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3534
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

Work Order Comments	
Program:	UST/PT ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: _____

Project Name:	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	☐ Routine ☐ Rush			
Project Location:	Due Date:			
Sample's Name:	TAI starts the day received by the lab, if received by 4:30pm			
PO #:				
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A		Correction Factor:	
Sample Custody Seals:	Yes No N/A		Temperature Reading:	
Total Containers:			Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	BTEX	CHLORIDES	Sample Comments
BH-2 0-1'	SOIL	5-10-23		0-1'	✓	1	X	X	X	
2'				2'						
3'				3'						
4'				4'						
5'				5'						
6'				6'						
7'				7'						
8'				8'						
9'				9'						
10'				10'						

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-4645-1

SDG Number: Eddy County NM

Login Number: 4645

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-4645-1

SDG Number: Eddy County NM

Login Number: 4645

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 05/11/23 10:54 AM

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

Action 232820

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 232820
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	12/6/2023