



SITE INFORMATION

Closure Report
Dos Equis 12 Federal Com 1H
Incident ID: NTO1421339361
Lea County, New Mexico
Unit A Sec 12 T24S R32E
32.23859°, -103.62240°

Crude Oil Release
Point of Release: Fire tube gasket ruptured
Release Date: 06/16/2014
Volume Released: 80 Barrels of Crude Oil
Volume Recovered: 80 Barrels of Crude Oil

CARMONA RESOURCES



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

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



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April 30, 2023

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

Re: Closure Report
Dos Equis 12 Federal Com 1H
Cimarex Energy Co.
Site Location: Unit A, S12, T24S, R32E
(Lat 32.23859°, Long -103.62240°)
Lea County, New Mexico

To whom it may concern:

On behalf of Cimarex Energy Co. (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Dos Equis 12 Federal Com 1H. The site is located at 32.23859°, -103.62240° within Unit A, S12, T24S, R32E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on June 16, 2014, due to a ruptured fire tube gasket on the heater treater. It resulted in approximately eighty (80) barrels of crude oil, and eighty (80) barrels of crude oil 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.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 1.99 miles Southeast of the site in S08, T24S, R33E and was drilled in 2012. The well has a reported depth to groundwater of 1,533' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

On April 6, 2023, H&R Enterprise drilled a groundwater determination bore to 105' below ground surface on a nearby location, 0.44 miles West of the site. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 105' below the surface. The coordinates for the groundwater determination bore are 32.238879°, -103.63003°. See Appendix D for the log.

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: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 20,000 mg/kg.

4.0 Site Assessment Activities

Between March 15, 2023, and April 5, 2023, Carmona Resources personnel were on site to perform site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, two (2) sample points (S-1 through S-2) and six (6) horizontal sample points (H-1 through H-6) were advanced to depths ranging from the surface to 2.0' bgs inside the area of concern. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1. See Figure 3 for the sample locations.

5.0 Conclusions

Based on the analytical data from the site assessment and operational status of the facility, no further actions are required at the site until reclamation per NMAC 19.15.29.13. 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 contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

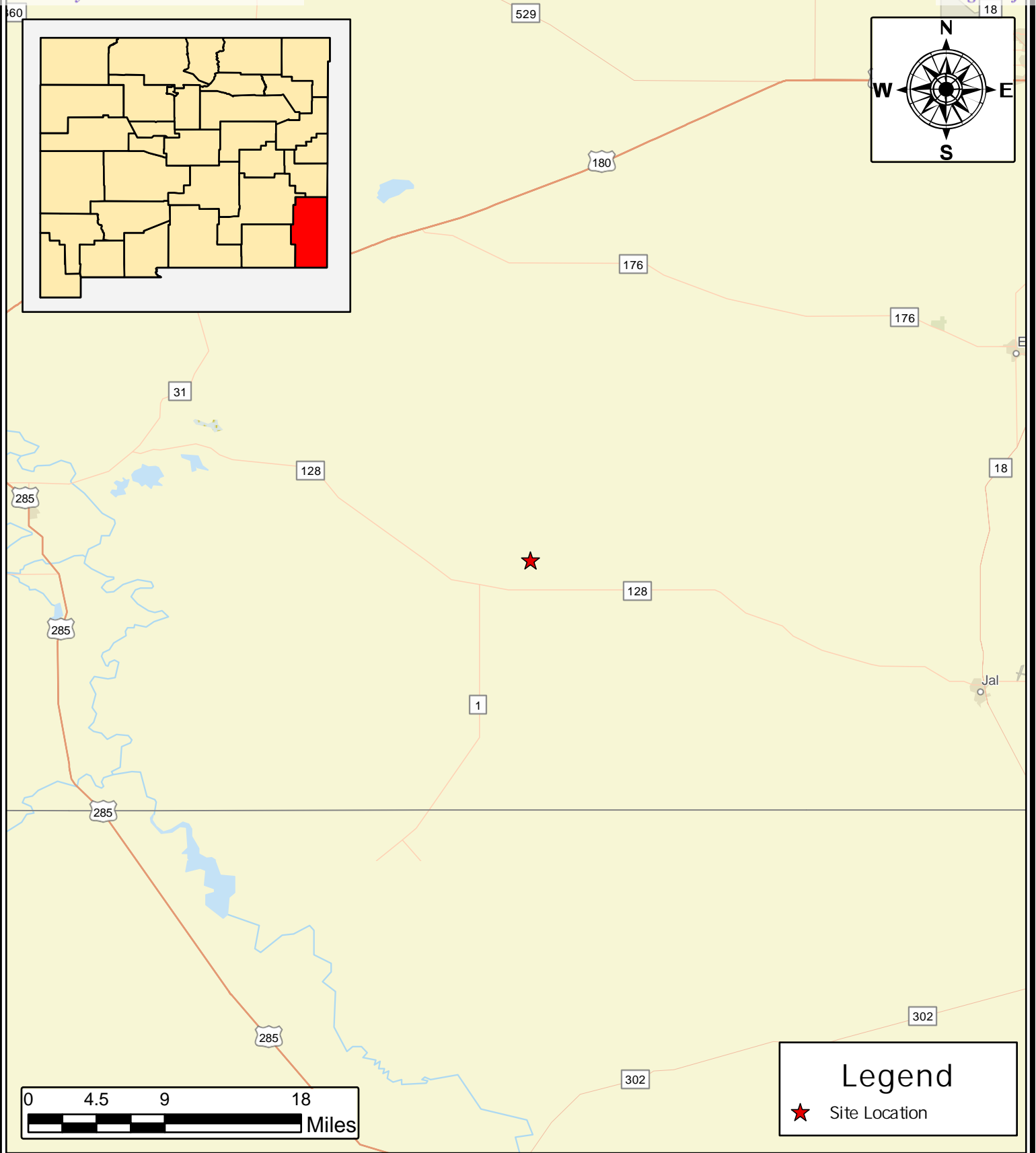
Ashton Thielke
Sr. Project Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES





OVERVIEW MAP
CIMAREX ENERGY CO.
DOS EQUIS 12 FEDERAL COM 1H
LEA COUNTY, NEW MEXICO
32.23859°, -103.62240°

SCALE: As Shown

Date: 4/7/2023



Carmona Resources
310 West Wall Street, Suite 500
Midland, Texas 79701

NOTES:

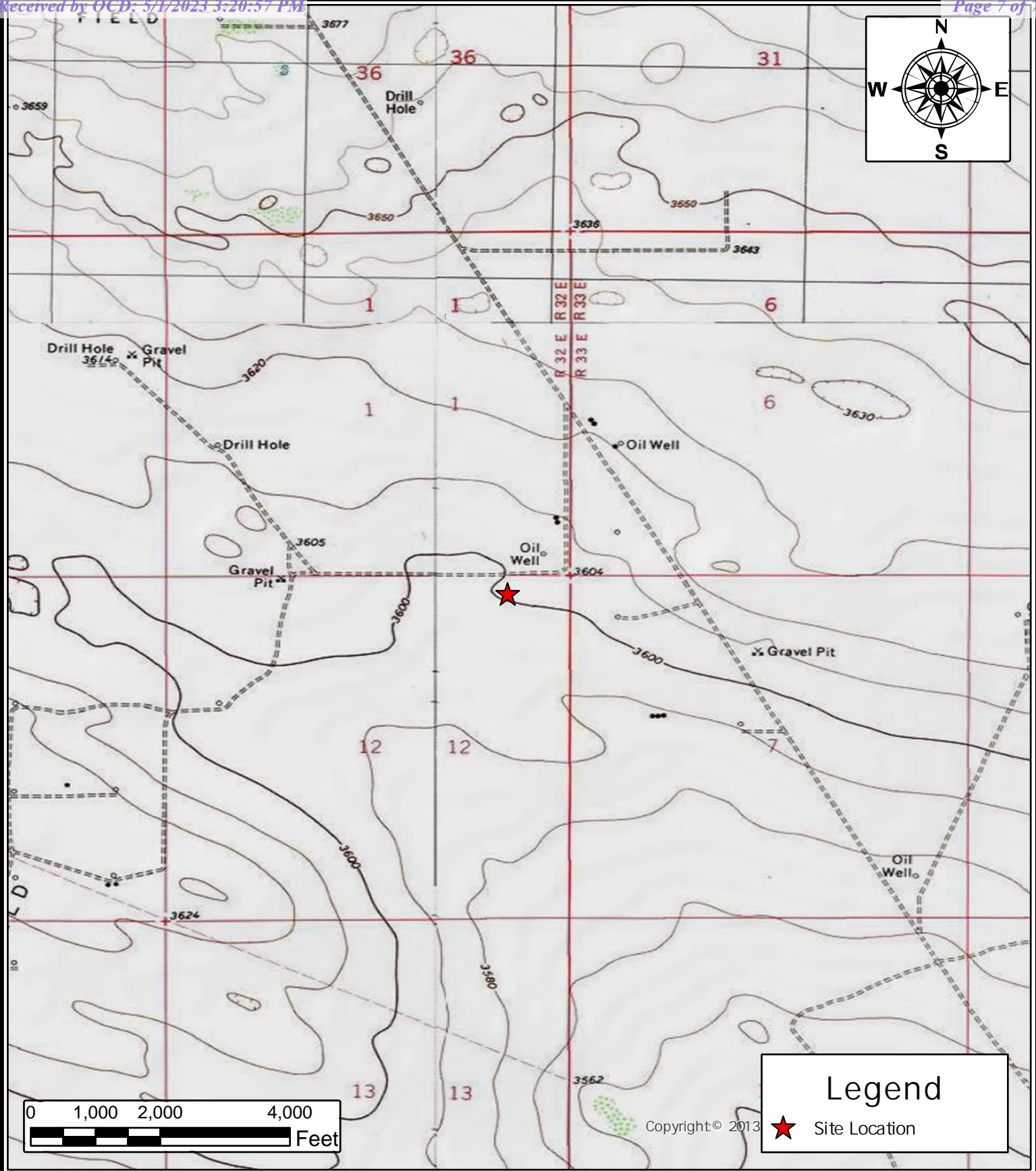
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1

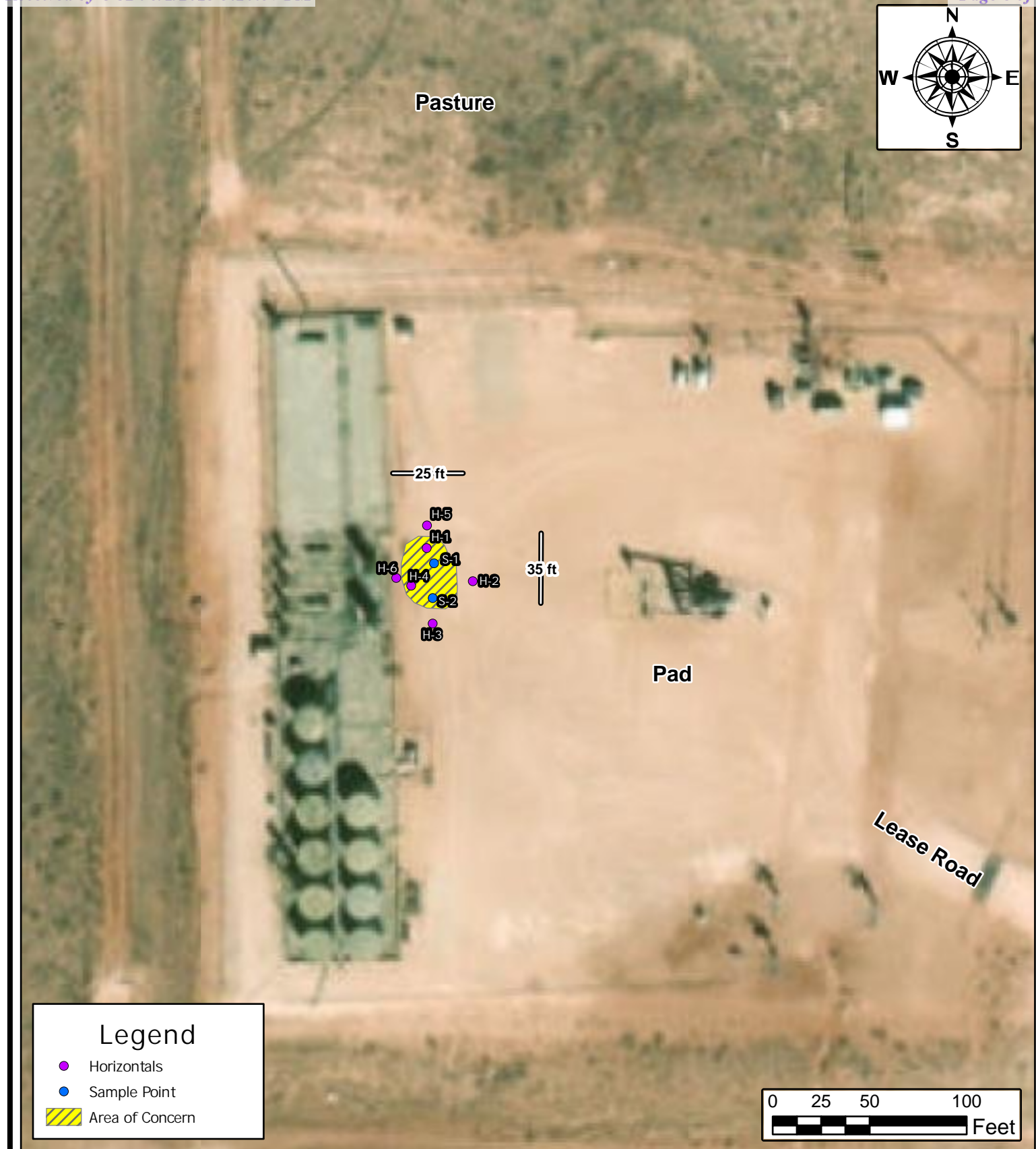


TOPOGRAPHIC MAP CIMAREX ENERGY CO. DOS EQUIS 12 FEDERAL COM 1H LEA COUNTY, NEW MEXICO 32.23859°, -103.62240°	
SCALE: As Shown	Date: 4/7/2023

 Carmona Resources 310 West Wall Street, Suite 500 Midland, Texas 79701
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NOTES: 1. Base Image: ESRI Maps & Data 2023 2. Map Projection: WGS84

DRAWING NUMBER: FIGURE 2
SHEET NUMBER: 1 of 1



SAMPLE LOCATION MAP
CIMAREX ENERGY CO.
DOS EQUIS 12 FEDERAL COM 1H
LEA COUNTY, NEW MEXICO
32.23859°, -103.62240°

SCALE: As Shown

Date: 4/11/2023



Carmona Resources
310 West Wall Street, Suite 500
Midland, Texas 79701

NOTES:

1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1

APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex Energy Co.
Dos Equis 12 Federal Com 1H
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	3/15/2023	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	0.00352	<0.00200	<0.00401	<0.00401	274
	"	0.5'-1.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	271
	"	1.0'-1.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	0.0318	<0.00199	<0.00398	0.0318	410
	"	1.5'-2.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	0.00929	<0.00200	<0.00399	0.00929	178
S-2	3/15/2023	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	327
	"	0.5'-1.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	155
	"	1.0'-1.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	87.7
H-1	3/15/2023	0-0.5'	<49.9	729	181	910	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	59.9
	4/5/2023	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-2	3/15/2023	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	169
H-3	3/15/2023	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	286
H-4	3/15/2023	0-0.5'	<49.9	124	<49.9	124	<0.00199	0.00326	<0.00199	<0.00398	<0.00398	66.1
	4/5/2023	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-5	4/5/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
H-6	4/5/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	20,000 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

(S) - Sample Point

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 1

Facility: Dos Equis 12 Federal Com 1H

County: Lea County, New Mexico

Description:

View Southwest, area of sample points (S-1 & S-2) and Horizontal Samples (H-1 through H-4).



Photograph No. 2

Facility: Dos Equis 12 Federal Com 1H

County: Lea County, New Mexico

Description:

View South, area of sample points (S-1 & S-2) and Horizontal Samples (H-1 through H-4).



Photograph No. 3

Facility: Dos Equis 12 Federal Com 1H

County: Lea County, New Mexico

Description:

View North, area of sample points (S-1 & S-2) and Horizontal Samples (H-1 through H-4).



PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 4

Facility: Dos Equis 12 Federal Com 1H

County: Lea County, New Mexico

Description:

View West, area of Horizontal Samples (H-5).



Photograph No. 5

Facility: Dos Equis 12 Federal Com 1H

County: Lea County, New Mexico

Description:

View North, area of Horizontal Sample (H-6).



APPENDIX C

CARMONA RESOURCES



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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Cimarex Energy Company	Contact: Johnny Titsworth
Address: 600 N. Marienfield, Suite 600, Midland, TX 79701	Telephone No. (432)250-2059
Facility Name: Dos Equis 12 Federal Com 1H	Facility Type: Tank Battery
Surface Owner: Federal	Mineral Owner: API No. 30-025-40700

LOCATION OF RELEASE

Unit Letter A	Section 12	Township 24S	Range 32E	Feet from the 330	North/South Line FNL	Feet from the 810	East/West Line FEL	County Lea
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Latitude: 32.23859 Longitude: -1003.62240

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 80BBLS	Volume Recovered: 80BBLS
Source of Release: Heater Treater	Date & Hour of Occurrence: 6/16/14 1400	Date & Hour of Discovery:
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoff Leking (OCD), Jennifer Van Curen (BLM)	
By Whom? Johnny Titsworth	Date and Hour: 6/16/14 1500	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

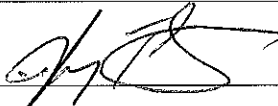
Describe Cause of Problem and Remedial Action Taken.*

Fire Tube gasket ruptured releasing oil into lined containment. Oil was picked up.

Describe Area Affected and Cleanup Action Taken.*

1/4 of a barrel of oil was spilled outside the lined containment, approximately 30'x30' area, 1' deep. Area will be scraped and sampled

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: 	OIL CONSERVATION DIVISION	
Printed Name: Johnny Titsworth	Approved by Environmental Specialist:	
Title: Environmental Compliance Coordinator	Approval Date:	Expiration Date:
E-mail Address: jtitsworth@cimarex.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6/17/14 Phone: (432)-250-2059		

* Attach Additional Sheets If Necessary

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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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: Jac. Lj Date: _____

email: _____ Telephone: _____

OCD OnlyReceived by: Jocelyn Harimon Date: 05/01/2023

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: *Jac. Lj* Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 05/01/2023

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

Closure Approved by: Michael Buchanan Date: 05/08/2023

Printed Name: Mike Buchanan Title: Environmental Specialist

APPENDIX D

CARMONA RESOURCES



Nearest water well

Cimarex Energy Co.

Legend

- 0.44 Miles
- 0.50 Mile Radius
- 1.04 Miles
- 1.99 Miles
- 2.56 Miles
- Dos Equis 12 Federal Com 1H (06.16.2014)
- Groundwater Determination Bores
- NMSEO Water Well
- USGS Water Well

454.43' - Drilled 1976

Dos Equis 12 Fed Com 3H - >105' GWDB - 04.06.2023

Dos Equis 12 Federal Com 1H (06.16.2014)



Dos Equis 13 Fed Com 2H - >55' GWDB - 12.01.2021

1,533' - Drilled 2012

Low Karst

Cimarex Energy Co.

Legend

-  Dos Equis 12 Federal Com 1H (06.16.2014)
-  Low

Dos Equis 12 Federal Com 1H (06.16.2014)





Project Name :	Dos Equis 12 Federal Com 3H	Date :	Thursday, April 6, 2023
Project No. :	1242	Sampler :	Michael Collier
Location :	Lea County, New Mexico	Driller :	H&R Enterprises
Coordinates :	32.238879°, -103.63003°	Method :	Air Rotary
Elevation :	3,606'		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - White/Grey well graded gravel, caliche, no organics, dry (GM).		50		(50') - Light brown/Red, Red Bed Sands, 90% Silty Sand, 10% Clay, dry (SM).	
5		(5') - White/Grey well graded gravel, caliche, no organics, dry (GM).		55		(55') - Light brown/Red, Red Bed Sands, 90% Silty Sand, 10% Clay, dry (SM).	
10		(10') - White/Grey well graded gravel, caliche, no organics, dry (GM).		60		(60') - Red, Red Bed Sands, 70% Silty Sand, 30% Clay, dry (SC).	
15		(15') - White/Grey well graded gravel, caliche, no organics, dry (GM).		65		(65') - Red, Red Bed Sands, 70% Silty Sand, 30% Clay, dry (SC).	
20		(20') - White/Grey well graded gravel, caliche, no organics, dry (GM).		70		(70') - Red, Red Bed Sands, 70% Silty Sand, 30% Clay, dry (SC).	
25		(25') - White/Grey well graded gravel, caliche, no organics, dry (GM).		75		(75') - Red, Red Bed Sands, 70% Silty Sand, 30% Clay, dry (SC).	
30		(30') - Light brown/Red, Red Bed Sands, 90% Silty Sand, 10% Clay, dry (SM).		80		(80') - Red, Red Bed Sands, 70% Silty Sand, 30% Clay, dry (SC).	
35		(35') - Light brown/Red, Red Bed Sands, 90% Silty Sand, 10% Clay, dry (SM).		85		(85') - Red, Red Bed Sands, 70% Silty Sand, 30% Clay, dry (SC).	
40		(40') - Light brown/Red, Red Bed Sands, 90% Silty Sand, 10% Clay, dry (SM).		90		(90') - Red, Red Bed Clayey Sands, 70% Clay, 30% Silty Sands, dry (CL).	
45		(45') - Light brown/Red, Red Bed Sands, 90% Silty Sand, 10% Clay, dry (SM).		95		(95') - Red, Red Bed Clayey Sands, 70% Clay, 30% Silty Sands, dry (CL).	
50				105		(105') - Red, Red Bed Clayey Sands, 70% Clay, 30% Silty Sands, dry (CL).	

Comments : Boring terminated at 105' with no presence of groundwater or moisture.
Well measured 4/10/2023 with no detection of groundwater

Dry @ 105'



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 01932	C		ED	3	1	12	24S	32E		628633	3567188*	1270	492		
C 04551 POD1	CUB		LE	4	4	3	31	23S	33E	630671	3569556	2042			
C 03591 POD1	CUB		LE	2	1	4	05	24S	33E	632731	3568518	3050			
C 03565 POD3	CUB		LE	3	4	08	24S	33E		632763	3566546	3195		1533	

Average Depth to Water: **1533 feet**

Minimum Depth: **1533 feet**

Maximum Depth: **1533 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 629789

Northing (Y): 3567714

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.

3/29/23 7:43 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	03565 POD3	3	4	08	24S	33E	632763	3566546	
x									
Driller License:	331	Driller Company:				SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.			
Driller Name:									
Drill Start Date:	09/27/2012	Drill Finish Date:				10/21/2012		Plug Date:	
Log File Date:	12/11/2012	PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:	8.90	Depth Well:				Depth Water:		1533 feet	

Water Bearing Stratifications:		Top	Bottom	Description
		0	20	Other/Unknown
		20	55	Sandstone/Gravel/Conglomerate
		55	1227	Shale/Mudstone/Siltstone
		1227	1262	Other/Unknown
		1262	1295	Other/Unknown
		1295	1310	Other/Unknown
		1310	1330	Other/Unknown
		1330	1375	Other/Unknown
		1479	1489	Other/Unknown
		1489	1533	Other/Unknown

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.



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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321428103395801

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

USGS 321428103395801 24S.32E.03.32124

Lea County, New Mexico
Latitude 32°14'28", Longitude 103°39'58" NAD27
Land-surface elevation 3,653 feet above NAVD88
The depth of the well is 550 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1976-01-22			D	62610	3196.84	NGVD29	1	Z		
1976-01-22			D	62611	3198.57	NAVD88	1	Z		
1976-01-22			D	72019	454.43		1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static

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

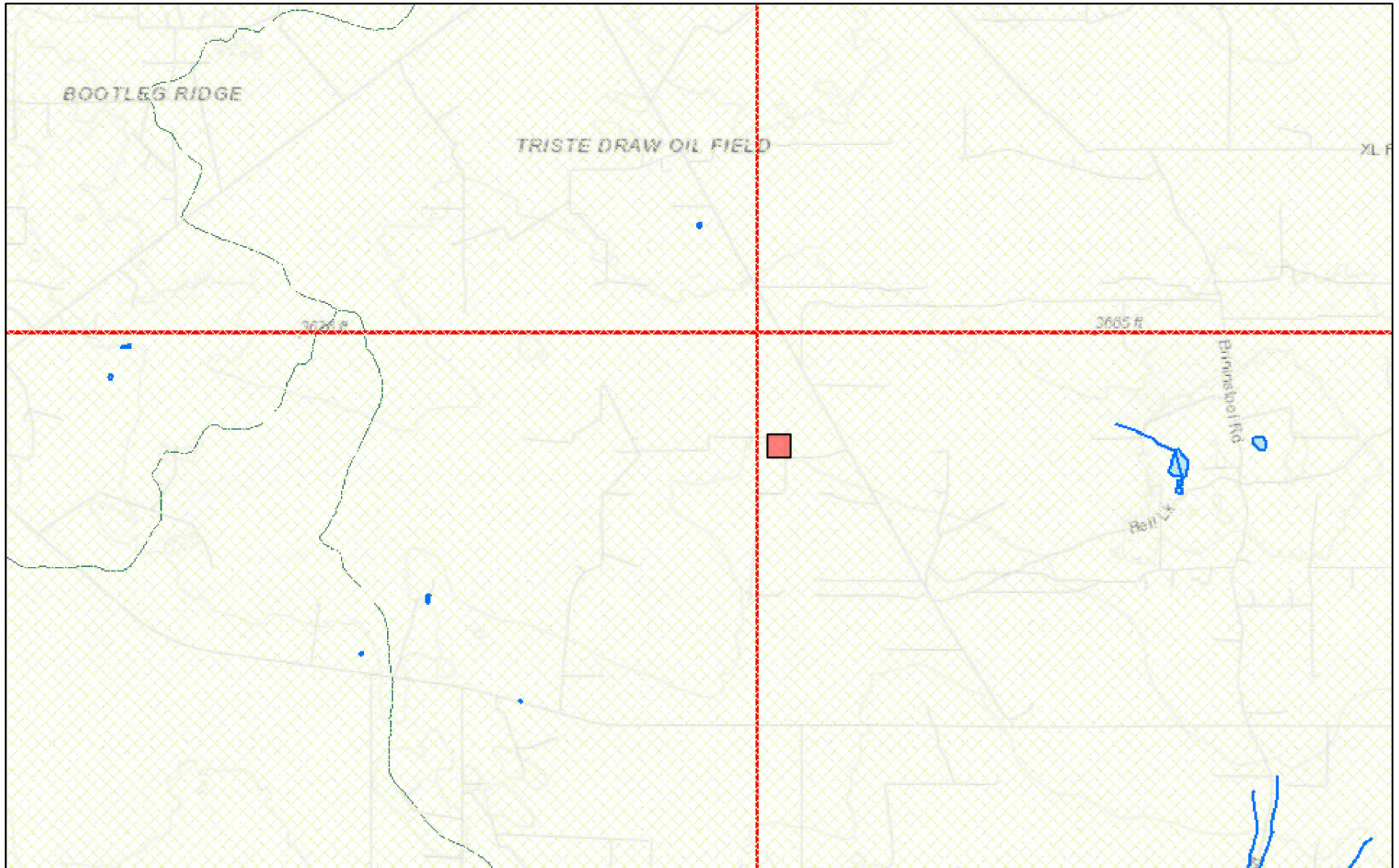
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Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

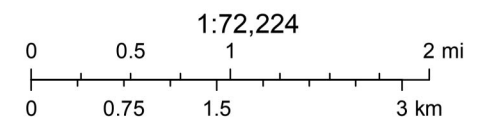


Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2023-03-29 09:49:10 EDT
0.3 0.27 nadww02

New Mexico NFHL Data



February 28, 2023



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

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APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/28/2023 4:48:50 PM

JOB DESCRIPTION

Dos Equis 12 Federal Com 1H (06.16.14)
SDG NUMBER Lea County, New Mexico


JOB NUMBER

880-26040-1

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

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

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Laboratory Job ID: 880-26040-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

Job ID: 880-26040-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-26040-1

Receipt

The samples were received on 3/16/2023 11:28 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 4.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-0.5') (880-26040-1), S-1 (0.5'-1') (880-26040-2), S-1 (1.0'-1.5') (880-26040-3), S-1 (1.5'-2') (880-26040-4), S-2 (0-0.5') (880-26040-5), S-2 (0.5'-1') (880-26040-6), S-2 (1.0'-1.5') (880-26040-7), H-1 (0-0.5') (880-26040-8), H-2 (0-0.5') (880-26040-9), H-3 (0-0.5') (880-26040-10) and H-4 (0-0.5') (880-26040-11).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49424 and analytical batch 880-49607 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: Surrogate recovery for the following sample was outside control limits: S-1 (1.0'-1.5') (880-26040-3). 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: (CCV 880-49069/47), (LCS 880-49114/2-A) and (LCSD 880-49114/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49114 and analytical batch 880-49069 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49143 and analytical batch 880-49155 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49143/2-A) and (LCSD 880-49143/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-49143 and analytical batch 880-49155 was outside control limits. Sample non-homogeneity is suspected.

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 for preparation batch 880-49266 and 880-49266 and analytical batch 880-49758 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. H-3 (0-0.5') (880-26040-10), H-4 (0-0.5') (880-26040-11), (880-26408-A-1-A), (880-26408-A-1-B MS) and (880-26408-A-1-C MSD)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49268 and 880-49268 and analytical batch 880-49761 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: S-1 (0-0.5') (880-26040-1), S-1 (0.5'-1') (880-26040-2), S-1 (1.0'-1.5') (880-26040-3), S-1 (1.5'-2') (880-26040-4), S-2 (0-0.5') (880-26040-5), (880-26040-A-1-E MS) and (880-26040-A-1-F MSD).

Case Narrative

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

Job ID: 880-26040-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26040-1

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:49	1
Toluene	0.00352	F1	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:49	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:49	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		03/24/23 13:17	03/28/23 01:49	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:49	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		03/24/23 13:17	03/28/23 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/24/23 13:17	03/28/23 01:49	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/24/23 13:17	03/28/23 01:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/28/23 10:21	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			03/22/23 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 21:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 21:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/21/23 12:04	03/21/23 21:04	1
o-Terphenyl	122		70 - 130	03/21/23 12:04	03/21/23 21:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	274	F1	5.05		mg/Kg			03/28/23 04:51	1

Client Sample ID: S-1 (0.5'-1')

Lab Sample ID: 880-26040-2

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/24/23 13:17	03/28/23 02:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 02:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 02:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 02:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 02:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/24/23 13:17	03/28/23 02:10	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/24/23 13:17	03/28/23 02:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

Client Sample ID: S-1 (0.5'-1')

Lab Sample ID: 880-26040-2

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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			03/28/23 10:21	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			03/22/23 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 22:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 22:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 22:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				03/21/23 12:04	03/21/23 22:11	1
o-Terphenyl	112		70 - 130				03/21/23 12:04	03/21/23 22:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	271		5.03		mg/Kg			03/28/23 05:05	1

Client Sample ID: S-1 (1.0'-1.5')

Lab Sample ID: 880-26040-3

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/24/23 13:17	03/28/23 02:30	1
Toluene	0.0318		0.00199		mg/Kg		03/24/23 13:17	03/28/23 02:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 02:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 02:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 02:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 02:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56	S1-	70 - 130				03/24/23 13:17	03/28/23 02:30	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/24/23 13:17	03/28/23 02:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0318		0.00398		mg/Kg			03/28/23 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/22/23 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/21/23 12:04	03/21/23 22:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/21/23 12:04	03/21/23 22:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.0'-1.5')

Lab Sample ID: 880-26040-3

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/21/23 12:04	03/21/23 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/21/23 12:04	03/21/23 22:33	1
o-Terphenyl	99		70 - 130				03/21/23 12:04	03/21/23 22:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		5.05		mg/Kg			03/28/23 05:09	1

Client Sample ID: S-1 (1.5'-2')

Lab Sample ID: 880-26040-4

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/24/23 13:17	03/28/23 02:50	1
Toluene	0.00929		0.00200		mg/Kg		03/24/23 13:17	03/28/23 02:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 02:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/24/23 13:17	03/28/23 02:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 02:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/24/23 13:17	03/28/23 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				03/24/23 13:17	03/28/23 02:50	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/24/23 13:17	03/28/23 02:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00929		0.00399		mg/Kg			03/28/23 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/22/23 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/21/23 12:04	03/21/23 22:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/21/23 12:04	03/21/23 22:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/21/23 12:04	03/21/23 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/21/23 12:04	03/21/23 22:55	1
o-Terphenyl	108		70 - 130				03/21/23 12:04	03/21/23 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		5.04		mg/Kg			03/28/23 05:14	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26040-5

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/24/23 13:17	03/28/23 03:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/24/23 13:17	03/28/23 03:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/24/23 13:17	03/28/23 03:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/24/23 13:17	03/28/23 03:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/24/23 13:17	03/28/23 03:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/24/23 13:17	03/28/23 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/24/23 13:17	03/28/23 03:11	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/24/23 13:17	03/28/23 03:11	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			03/28/23 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/22/23 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/21/23 12:04	03/21/23 23:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/21/23 12:04	03/21/23 23:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/21/23 12:04	03/21/23 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	03/21/23 12:04	03/21/23 23:17	1
o-Terphenyl	100		70 - 130	03/21/23 12:04	03/21/23 23:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	327		4.99		mg/Kg			03/28/23 05:19	1

Client Sample ID: S-2 (0.5'-1')

Lab Sample ID: 880-26040-6

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/24/23 13:17	03/28/23 03:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 03:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 03:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 03:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 03:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 03:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/24/23 13:17	03/28/23 03:31	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/24/23 13:17	03/28/23 03:31	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

Client Sample ID: S-2 (0.5'-1')

Lab Sample ID: 880-26040-6

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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			03/28/23 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/22/23 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/21/23 12:04	03/21/23 23:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/21/23 12:04	03/21/23 23:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/21/23 12:04	03/21/23 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				03/21/23 12:04	03/21/23 23:39	1
o-Terphenyl	94		70 - 130				03/21/23 12:04	03/21/23 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		5.04		mg/Kg			03/26/23 12:16	1

Client Sample ID: S-2 (1.0'-1.5')

Lab Sample ID: 880-26040-7

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/24/23 13:17	03/28/23 03:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 03:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 03:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 03:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 03:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 03:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/24/23 13:17	03/28/23 03:52	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/24/23 13:17	03/28/23 03:52	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			03/28/23 10:21	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			03/22/23 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/22/23 00:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/22/23 00:00	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.0'-1.5')

Lab Sample ID: 880-26040-7

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/21/23 12:04	03/22/23 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				03/21/23 12:04	03/22/23 00:00	1
o-Terphenyl	94		70 - 130				03/21/23 12:04	03/22/23 00:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.7		4.98		mg/Kg			03/26/23 12:30	1

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

Lab Sample ID: 880-26040-8

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/24/23 13:17	03/28/23 04:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 04:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 04:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/24/23 13:17	03/28/23 04:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 04:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/24/23 13:17	03/28/23 04:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/24/23 13:17	03/28/23 04:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/24/23 13:17	03/28/23 04:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/28/23 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	910		49.9		mg/Kg			03/23/23 12:31	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		03/21/23 13:58	03/22/23 11:50	1
Diesel Range Organics (Over C10-C28)	729		49.9		mg/Kg		03/21/23 13:58	03/22/23 11:50	1
Oil Range Organics (Over C28-C36)	181		49.9		mg/Kg		03/21/23 13:58	03/22/23 11:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				03/21/23 13:58	03/22/23 11:50	1
o-Terphenyl	118		70 - 130				03/21/23 13:58	03/22/23 11:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.9		4.96		mg/Kg			03/26/23 12:34	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26040-9

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/24/23 13:17	03/28/23 04:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 04:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 04:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/24/23 13:17	03/28/23 04:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 04:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/24/23 13:17	03/28/23 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/24/23 13:17	03/28/23 04:32	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/24/23 13:17	03/28/23 04:32	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			03/28/23 10:21	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			03/23/23 12:31	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		03/21/23 13:58	03/22/23 12:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 12:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	03/21/23 13:58	03/22/23 12:12	1
o-Terphenyl	97		70 - 130	03/21/23 13:58	03/22/23 12:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	169		4.97		mg/Kg			03/28/23 06:54	1

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

Lab Sample ID: 880-26040-10

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/24/23 13:17	03/28/23 04:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 04:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 04:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 04:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 04:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/24/23 13:17	03/28/23 04:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/24/23 13:17	03/28/23 04:53	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26040-10

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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			03/28/23 10:21	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			03/23/23 12:31	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		03/21/23 13:58	03/22/23 12:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 12:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				03/21/23 13:58	03/22/23 12:33	1
o-Terphenyl	112		70 - 130				03/21/23 13:58	03/22/23 12:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	286		4.98		mg/Kg			03/27/23 23:50	1

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

Lab Sample ID: 880-26040-11

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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		03/24/23 13:17	03/28/23 06:43	1
Toluene	0.00326		0.00199		mg/Kg		03/24/23 13:17	03/28/23 06:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 06:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 06:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 06:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 06:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				03/24/23 13:17	03/28/23 06:43	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/24/23 13:17	03/28/23 06:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/28/23 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	124		49.9		mg/Kg			03/23/23 12:31	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 F2	49.9		mg/Kg		03/21/23 13:58	03/22/23 10:43	1
Diesel Range Organics (Over C10-C28)	124		49.9		mg/Kg		03/21/23 13:58	03/22/23 10:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 03/15/23 00:00
Date Received: 03/16/23 11:28

Lab Sample ID: 880-26040-11
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 10:43	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	95		70 - 130				03/21/23 13:58	03/22/23 10:43	1	
o-Terphenyl	107		70 - 130				03/21/23 13:58	03/22/23 10:43	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	66.1		5.00		mg/Kg			03/27/23 23:55	1	

Surrogate Summary

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-26040-1	S-1 (0-0.5')	91	87
880-26040-1 MS	S-1 (0-0.5')	103	106
880-26040-1 MSD	S-1 (0-0.5')	106	92
880-26040-2	S-1 (0.5'-1')	106	103
880-26040-3	S-1 (1.0'-1.5')	56 S1-	92
880-26040-4	S-1 (1.5'-2')	85	90
880-26040-5	S-2 (0-0.5')	103	103
880-26040-6	S-2 (0.5'-1')	104	104
880-26040-7	S-2 (1.0'-1.5')	99	102
880-26040-8	H-1 (0-0.5')	101	105
880-26040-9	H-2 (0-0.5')	102	97
880-26040-10	H-3 (0-0.5')	98	105
880-26040-11	H-4 (0-0.5')	93	93
LCS 880-49424/1-A	Lab Control Sample	97	110
LCSD 880-49424/2-A	Lab Control Sample Dup	97	110
MB 880-49424/5-A	Method Blank	90	97
MB 880-49607/8	Method Blank	88	98
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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-26040-1	S-1 (0-0.5')	107	122
880-26040-1 MS	S-1 (0-0.5')	101	104
880-26040-1 MSD	S-1 (0-0.5')	102	107
880-26040-2	S-1 (0.5'-1')	101	112
880-26040-3	S-1 (1.0'-1.5')	87	99
880-26040-4	S-1 (1.5'-2')	99	108
880-26040-5	S-2 (0-0.5')	87	100
880-26040-6	S-2 (0.5'-1')	81	94
880-26040-7	S-2 (1.0'-1.5')	81	94
880-26040-8	H-1 (0-0.5')	111	118
880-26040-9	H-2 (0-0.5')	88	97
880-26040-10	H-3 (0-0.5')	101	112
880-26040-11	H-4 (0-0.5')	95	107
880-26040-11 MS	H-4 (0-0.5')	100	99
880-26040-11 MSD	H-4 (0-0.5')	122	121
LCS 880-49114/2-A	Lab Control Sample	108	132 S1+
LCS 880-49143/2-A	Lab Control Sample	115	135 S1+
LCSD 880-49114/3-A	Lab Control Sample Dup	109	135 S1+
LCSD 880-49143/3-A	Lab Control Sample Dup	111	132 S1+
MB 880-49114/1-A	Method Blank	117	144 S1+
MB 880-49143/1-A	Method Blank	117	138 S1+
Surrogate Legend			

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Job ID: 880-26040-1
SDG: Lea County, New Mexico

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QC Sample Results

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49424/5-A

Matrix: Solid

Analysis Batch: 49607

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/24/23 13:17	03/28/23 01:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/23 13:17	03/28/23 01:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/24/23 13:17	03/28/23 01:21	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/24/23 13:17	03/28/23 01:21	1

Lab Sample ID: LCS 880-49424/1-A

Matrix: Solid

Analysis Batch: 49607

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1022		mg/Kg		102	70 - 130
Toluene	0.100	0.09998		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.08973		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1763		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08969		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-49424/2-A

Matrix: Solid

Analysis Batch: 49607

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49424

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1054		mg/Kg		105	70 - 130	3	35
Toluene	0.100	0.1013		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.09252		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1812		mg/Kg		91	70 - 130	3	35
o-Xylene	0.100	0.09207		mg/Kg		92	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-26040-1 MS

Matrix: Solid

Analysis Batch: 49607

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

Prep Type: Total/NA

Prep Batch: 49424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0996	0.07030		mg/Kg		71	70 - 130
Toluene	0.00352	F1	0.0996	0.06654	F1	mg/Kg		63	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26040-1 MS

Matrix: Solid

Analysis Batch: 49607

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

Prep Type: Total/NA

Prep Batch: 49424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0996	0.06359	F1	mg/Kg		63	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.1269	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.06736	F1	mg/Kg		67	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-26040-1 MSD

Matrix: Solid

Analysis Batch: 49607

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

Prep Type: Total/NA

Prep Batch: 49424

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0990	0.05109	F1	mg/Kg		52	70 - 130	32	35
Toluene	0.00352	F1	0.0990	0.05734	F1	mg/Kg		54	70 - 130	15	35
Ethylbenzene	<0.00200	U F1	0.0990	0.05554	F1	mg/Kg		55	70 - 130	14	35
m-Xylene & p-Xylene	<0.00401	U F1	0.198	0.1111	F1	mg/Kg		56	70 - 130	13	35
o-Xylene	<0.00200	U F1	0.0990	0.05954	F1	mg/Kg		59	70 - 130	12	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-49607/8

Matrix: Solid

Analysis Batch: 49607

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			03/27/23 13:45	1
Toluene	<0.00200	U	0.00200		mg/Kg			03/27/23 13:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			03/27/23 13:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			03/27/23 13:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			03/27/23 13:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			03/27/23 13:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130		03/27/23 13:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130		03/27/23 13:45	1

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

Lab Sample ID: MB 880-49114/1-A

Matrix: Solid

Analysis Batch: 49069

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49114

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		03/21/23 12:04	03/21/23 19:58	1

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QC Sample Results

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-49114/1-A

Matrix: Solid

Analysis Batch: 49069

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 19:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 12:04	03/21/23 19:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				03/21/23 12:04	03/21/23 19:58	1
o-Terphenyl	144	S1+	70 - 130				03/21/23 12:04	03/21/23 19:58	1

Lab Sample ID: LCS 880-49114/2-A

Matrix: Solid

Analysis Batch: 49069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	963.2		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	854.6		mg/Kg		85	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	108		70 - 130				
o-Terphenyl	132	S1+	70 - 130				

Lab Sample ID: LCSD 880-49114/3-A

Matrix: Solid

Analysis Batch: 49069

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	952.5		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	878.0		mg/Kg		88	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	135	S1+	70 - 130						

Lab Sample ID: 880-26040-1 MS

Matrix: Solid

Analysis Batch: 49069

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

Prep Type: Total/NA

Prep Batch: 49114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1058		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1078		mg/Kg		106	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	101		70 - 130						
o-Terphenyl	104		70 - 130						

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QC Sample Results

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26040-1 MSD

Matrix: Solid

Analysis Batch: 49069

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

Prep Type: Total/NA

Prep Batch: 49114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1066		mg/Kg		107	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1110		mg/Kg		109	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	107		70 - 130								

Lab Sample ID: MB 880-49143/1-A

Matrix: Solid

Analysis Batch: 49155

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49143

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		03/21/23 13:58	03/22/23 08:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 08:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 08:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				03/21/23 13:58	03/22/23 08:00	1
o-Terphenyl	138	S1+	70 - 130				03/21/23 13:58	03/22/23 08:00	1

Lab Sample ID: LCS 880-49143/2-A

Matrix: Solid

Analysis Batch: 49155

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	957.6		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	916.2		mg/Kg		92	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	115		70 - 130						
o-Terphenyl	135	S1+	70 - 130						

Lab Sample ID: LCSD 880-49143/3-A

Matrix: Solid

Analysis Batch: 49155

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49143

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	941.5		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	888.6		mg/Kg		89	70 - 130	3	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-49143/3-A

Matrix: Solid

Analysis Batch: 49155

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49143

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: 880-26040-11 MS

Matrix: Solid

Analysis Batch: 49155

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

Prep Type: Total/NA

Prep Batch: 49143

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	963.1		mg/Kg		94	70 - 130	
Diesel Range Organics (Over C10-C28)	124		999	919.6		mg/Kg		80	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	100		70 - 130							
o-Terphenyl	99		70 - 130							

Lab Sample ID: 880-26040-11 MSD

Matrix: Solid

Analysis Batch: 49155

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

Prep Type: Total/NA

Prep Batch: 49143

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	1211	F2	mg/Kg		119	70 - 130	23	20	
Diesel Range Organics (Over C10-C28)	124		998	1104		mg/Kg		98	70 - 130	18	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	122		70 - 130									
o-Terphenyl	121		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49265/1-A

Matrix: Solid

Analysis Batch: 49530

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			03/26/23 12:02	1	

Lab Sample ID: LCS 880-49265/2-A

Matrix: Solid

Analysis Batch: 49530

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	248.5		mg/Kg		99	90 - 110		

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QC Sample Results

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-49265/3-A

Matrix: Solid

Analysis Batch: 49530

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-26040-6 MS

Matrix: Solid

Analysis Batch: 49530

Client Sample ID: S-2 (0.5'-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	155		252	410.5		mg/Kg		101	90 - 110		

Lab Sample ID: 880-26040-6 MSD

Matrix: Solid

Analysis Batch: 49530

Client Sample ID: S-2 (0.5'-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	155		252	412.9		mg/Kg		102	90 - 110	1	20

Lab Sample ID: MB 880-49266/1-A

Matrix: Solid

Analysis Batch: 49758

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			03/27/23 23:19	1

Lab Sample ID: LCS 880-49266/2-A

Matrix: Solid

Analysis Batch: 49758

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	265.5		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-49266/3-A

Matrix: Solid

Analysis Batch: 49758

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	265.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-26408-A-1-B MS

Matrix: Solid

Analysis Batch: 49758

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	882	F1	252	1094	F1	mg/Kg		84	90 - 110		

Lab Sample ID: 880-26408-A-1-C MSD

Matrix: Solid

Analysis Batch: 49758

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	882	F1	252	1080	F1	mg/Kg		79	90 - 110	1	20

Eurofins Midland

QC Sample Results

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49268/1-A

Matrix: Solid

Analysis Batch: 49761

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			03/28/23 04:38	1

Lab Sample ID: LCS 880-49268/2-A

Matrix: Solid

Analysis Batch: 49761

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.2		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-49268/3-A

Matrix: Solid

Analysis Batch: 49761

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	258.4		mg/Kg		103	90 - 110	2	20

Lab Sample ID: 880-26040-1 MS

Matrix: Solid

Analysis Batch: 49761

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	274	F1	253	575.7	F1	mg/Kg		120	90 - 110

Lab Sample ID: 880-26040-1 MSD

Matrix: Solid

Analysis Batch: 49761

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	274	F1	253	569.9	F1	mg/Kg		117	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

GC VOA

Prep Batch: 49424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-1	S-1 (0-0.5')	Total/NA	Solid	5035	
880-26040-2	S-1 (0.5'-1')	Total/NA	Solid	5035	
880-26040-3	S-1 (1.0'-1.5')	Total/NA	Solid	5035	
880-26040-4	S-1 (1.5'-2')	Total/NA	Solid	5035	
880-26040-5	S-2 (0-0.5')	Total/NA	Solid	5035	
880-26040-6	S-2 (0.5'-1')	Total/NA	Solid	5035	
880-26040-7	S-2 (1.0'-1.5')	Total/NA	Solid	5035	
880-26040-8	H-1 (0-0.5')	Total/NA	Solid	5035	
880-26040-9	H-2 (0-0.5')	Total/NA	Solid	5035	
880-26040-10	H-3 (0-0.5')	Total/NA	Solid	5035	
880-26040-11	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-49424/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49424/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49424/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26040-1 MS	S-1 (0-0.5')	Total/NA	Solid	5035	
880-26040-1 MSD	S-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 49607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-1	S-1 (0-0.5')	Total/NA	Solid	8021B	49424
880-26040-2	S-1 (0.5'-1')	Total/NA	Solid	8021B	49424
880-26040-3	S-1 (1.0'-1.5')	Total/NA	Solid	8021B	49424
880-26040-4	S-1 (1.5'-2')	Total/NA	Solid	8021B	49424
880-26040-5	S-2 (0-0.5')	Total/NA	Solid	8021B	49424
880-26040-6	S-2 (0.5'-1')	Total/NA	Solid	8021B	49424
880-26040-7	S-2 (1.0'-1.5')	Total/NA	Solid	8021B	49424
880-26040-8	H-1 (0-0.5')	Total/NA	Solid	8021B	49424
880-26040-9	H-2 (0-0.5')	Total/NA	Solid	8021B	49424
880-26040-10	H-3 (0-0.5')	Total/NA	Solid	8021B	49424
880-26040-11	H-4 (0-0.5')	Total/NA	Solid	8021B	49424
MB 880-49424/5-A	Method Blank	Total/NA	Solid	8021B	49424
MB 880-49607/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-49424/1-A	Lab Control Sample	Total/NA	Solid	8021B	49424
LCSD 880-49424/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49424
880-26040-1 MS	S-1 (0-0.5')	Total/NA	Solid	8021B	49424
880-26040-1 MSD	S-1 (0-0.5')	Total/NA	Solid	8021B	49424

Analysis Batch: 49721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-26040-2	S-1 (0.5'-1')	Total/NA	Solid	Total BTEX	
880-26040-3	S-1 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
880-26040-4	S-1 (1.5'-2')	Total/NA	Solid	Total BTEX	
880-26040-5	S-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-26040-6	S-2 (0.5'-1')	Total/NA	Solid	Total BTEX	
880-26040-7	S-2 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
880-26040-8	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-26040-9	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-26040-10	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-26040-11	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 49069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	49114
880-26040-2	S-1 (0.5'-1')	Total/NA	Solid	8015B NM	49114
880-26040-3	S-1 (1.0'-1.5')	Total/NA	Solid	8015B NM	49114
880-26040-4	S-1 (1.5'-2')	Total/NA	Solid	8015B NM	49114
880-26040-5	S-2 (0-0.5')	Total/NA	Solid	8015B NM	49114
880-26040-6	S-2 (0.5'-1')	Total/NA	Solid	8015B NM	49114
880-26040-7	S-2 (1.0'-1.5')	Total/NA	Solid	8015B NM	49114
MB 880-49114/1-A	Method Blank	Total/NA	Solid	8015B NM	49114
LCS 880-49114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49114
LCSD 880-49114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49114
880-26040-1 MS	S-1 (0-0.5')	Total/NA	Solid	8015B NM	49114
880-26040-1 MSD	S-1 (0-0.5')	Total/NA	Solid	8015B NM	49114

Prep Batch: 49114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-1	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-26040-2	S-1 (0.5'-1')	Total/NA	Solid	8015NM Prep	
880-26040-3	S-1 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
880-26040-4	S-1 (1.5'-2')	Total/NA	Solid	8015NM Prep	
880-26040-5	S-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-26040-6	S-2 (0.5'-1')	Total/NA	Solid	8015NM Prep	
880-26040-7	S-2 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
MB 880-49114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26040-1 MS	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-26040-1 MSD	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 49143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-8	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-26040-9	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-26040-10	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-26040-11	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-49143/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49143/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26040-11 MS	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-26040-11 MSD	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-8	H-1 (0-0.5')	Total/NA	Solid	8015B NM	49143
880-26040-9	H-2 (0-0.5')	Total/NA	Solid	8015B NM	49143
880-26040-10	H-3 (0-0.5')	Total/NA	Solid	8015B NM	49143
880-26040-11	H-4 (0-0.5')	Total/NA	Solid	8015B NM	49143
MB 880-49143/1-A	Method Blank	Total/NA	Solid	8015B NM	49143
LCS 880-49143/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49143
LCSD 880-49143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49143
880-26040-11 MS	H-4 (0-0.5')	Total/NA	Solid	8015B NM	49143
880-26040-11 MSD	H-4 (0-0.5')	Total/NA	Solid	8015B NM	49143

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 49195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-26040-2	S-1 (0.5'-1')	Total/NA	Solid	8015 NM	
880-26040-3	S-1 (1.0'-1.5')	Total/NA	Solid	8015 NM	
880-26040-4	S-1 (1.5'-2')	Total/NA	Solid	8015 NM	
880-26040-5	S-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-26040-6	S-2 (0.5'-1')	Total/NA	Solid	8015 NM	
880-26040-7	S-2 (1.0'-1.5')	Total/NA	Solid	8015 NM	
880-26040-8	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-26040-9	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-26040-10	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-26040-11	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-6	S-2 (0.5'-1')	Soluble	Solid	DI Leach	
880-26040-7	S-2 (1.0'-1.5')	Soluble	Solid	DI Leach	
880-26040-8	H-1 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-49265/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49265/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49265/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26040-6 MS	S-2 (0.5'-1')	Soluble	Solid	DI Leach	
880-26040-6 MSD	S-2 (0.5'-1')	Soluble	Solid	DI Leach	

Leach Batch: 49266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-10	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-26040-11	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-49266/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49266/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49266/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26408-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26408-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 49268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-26040-2	S-1 (0.5'-1')	Soluble	Solid	DI Leach	
880-26040-3	S-1 (1.0'-1.5')	Soluble	Solid	DI Leach	
880-26040-4	S-1 (1.5'-2')	Soluble	Solid	DI Leach	
880-26040-5	S-2 (0-0.5')	Soluble	Solid	DI Leach	
880-26040-9	H-2 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-49268/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49268/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49268/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26040-1 MS	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-26040-1 MSD	S-1 (0-0.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

HPLC/IC

Analysis Batch: 49530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-6	S-2 (0.5'-1')	Soluble	Solid	300.0	49265
880-26040-7	S-2 (1.0'-1.5')	Soluble	Solid	300.0	49265
880-26040-8	H-1 (0-0.5')	Soluble	Solid	300.0	49265
MB 880-49265/1-A	Method Blank	Soluble	Solid	300.0	49265
LCS 880-49265/2-A	Lab Control Sample	Soluble	Solid	300.0	49265
LCSD 880-49265/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49265
880-26040-6 MS	S-2 (0.5'-1')	Soluble	Solid	300.0	49265
880-26040-6 MSD	S-2 (0.5'-1')	Soluble	Solid	300.0	49265

Analysis Batch: 49758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-10	H-3 (0-0.5')	Soluble	Solid	300.0	49266
880-26040-11	H-4 (0-0.5')	Soluble	Solid	300.0	49266
MB 880-49266/1-A	Method Blank	Soluble	Solid	300.0	49266
LCS 880-49266/2-A	Lab Control Sample	Soluble	Solid	300.0	49266
LCSD 880-49266/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49266
880-26408-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	49266
880-26408-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49266

Analysis Batch: 49761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26040-1	S-1 (0-0.5')	Soluble	Solid	300.0	49268
880-26040-2	S-1 (0.5'-1')	Soluble	Solid	300.0	49268
880-26040-3	S-1 (1.0'-1.5')	Soluble	Solid	300.0	49268
880-26040-4	S-1 (1.5'-2')	Soluble	Solid	300.0	49268
880-26040-5	S-2 (0-0.5')	Soluble	Solid	300.0	49268
880-26040-9	H-2 (0-0.5')	Soluble	Solid	300.0	49268
MB 880-49268/1-A	Method Blank	Soluble	Solid	300.0	49268
LCS 880-49268/2-A	Lab Control Sample	Soluble	Solid	300.0	49268
LCSD 880-49268/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49268
880-26040-1 MS	S-1 (0-0.5')	Soluble	Solid	300.0	49268
880-26040-1 MSD	S-1 (0-0.5')	Soluble	Solid	300.0	49268

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26040-1

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49195	03/22/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/21/23 21:04	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49268	03/22/23 22:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49761	03/28/23 04:51	SMC	EET MID

Client Sample ID: S-1 (0.5'-1')

Lab Sample ID: 880-26040-2

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 02:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49195	03/22/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/21/23 22:11	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49268	03/22/23 22:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49761	03/28/23 05:05	SMC	EET MID

Client Sample ID: S-1 (1.0'-1.5')

Lab Sample ID: 880-26040-3

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 02:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49195	03/22/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/21/23 22:33	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49268	03/22/23 22:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49761	03/28/23 05:09	SMC	EET MID

Client Sample ID: S-1 (1.5'-2')

Lab Sample ID: 880-26040-4

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 02:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5'-2')

Lab Sample ID: 880-26040-4

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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			49195	03/22/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/21/23 22:55	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49268	03/22/23 22:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49761	03/28/23 05:14	SMC	EET MID

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

Lab Sample ID: 880-26040-5

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 03:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49195	03/22/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/21/23 23:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49268	03/22/23 22:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49761	03/28/23 05:19	SMC	EET MID

Client Sample ID: S-2 (0.5'-1')

Lab Sample ID: 880-26040-6

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 03:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49195	03/22/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/21/23 23:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49265	03/22/23 22:12	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49530	03/26/23 12:16	SMC	EET MID

Client Sample ID: S-2 (1.0'-1.5')

Lab Sample ID: 880-26040-7

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49195	03/22/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/22/23 00:00	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.0'-1.5')

Lab Sample ID: 880-26040-7

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	49265	03/22/23 22:12	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49530	03/26/23 12:30	SMC	EET MID

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

Lab Sample ID: 880-26040-8

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 04:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49195	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 11:50	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49265	03/22/23 22:12	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49530	03/26/23 12:34	SMC	EET MID

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

Lab Sample ID: 880-26040-9

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 04:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49195	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 12:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49268	03/22/23 22:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49761	03/28/23 06:54	SMC	EET MID

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

Lab Sample ID: 880-26040-10

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/16/23 11:28

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 04:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49195	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 12:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49266	03/22/23 22:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49758	03/27/23 23:50	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 03/15/23 00:00
Date Received: 03/16/23 11:28

Lab Sample ID: 880-26040-11
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			5.03 g	5 mL	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 06:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49721	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49195	03/23/23 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 10:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49266	03/22/23 22:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49758	03/27/23 23:55	SMC	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

Job ID: 880-26040-1

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
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

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources

Job ID: 880-26040-1

Project/Site: Dos Equis 12 Federal Com 1H (06.16.14)

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26040-1	S-1 (0-0.5')	Solid	03/15/23 00:00	03/16/23 11:28
880-26040-2	S-1 (0.5'-1')	Solid	03/15/23 00:00	03/16/23 11:28
880-26040-3	S-1 (1.0'-1.5')	Solid	03/15/23 00:00	03/16/23 11:28
880-26040-4	S-1 (1.5'-2')	Solid	03/15/23 00:00	03/16/23 11:28
880-26040-5	S-2 (0-0.5')	Solid	03/15/23 00:00	03/16/23 11:28
880-26040-6	S-2 (0.5'-1')	Solid	03/15/23 00:00	03/16/23 11:28
880-26040-7	S-2 (1.0'-1.5')	Solid	03/15/23 00:00	03/16/23 11:28
880-26040-8	H-1 (0-0.5')	Solid	03/15/23 00:00	03/16/23 11:28
880-26040-9	H-2 (0-0.5')	Solid	03/15/23 00:00	03/16/23 11:28
880-26040-10	H-3 (0-0.5')	Solid	03/15/23 00:00	03/16/23 11:28
880-26040-11	H-4 (0-0.5')	Solid	03/15/23 00:00	03/16/23 11:28

Work Order No: 26040

Page 1 of 2


Project Manager: Ashton Thielke		Bill to (if different): Laci Luig	
Company Name: Carmona Resources		Cimarex Energy	
Address: 310 W Wall St Ste 415		600 N Marlenfield St, Suite 600	
City, State ZIP: Midland, TX 79701		Midland, TX 79701	
Phone: 432-813-8988		Email: laci.luig@coterra.com ashon.thielke@coterra.com	

Project Name: Dos Equis 12 Federal Com 1H (06.16 14)		Turn Around		Pres. Code	
Project Number: 1242		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location: Lea County, New Mexico		Due Date		Normal	
Sampler's Name: GPJ					
PO #:					

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

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont
S-1 (0-0.5')	3/15/2023		X		G	1
S-1 (0.5'-1')	3/15/2023		X		G	1
S-1 (1.0'-1.5')	3/15/2023		X		G	1
S-1 (1.5'-2')	3/15/2023		X		G	1
S-2 (0-0.5')	3/15/2023		X		G	1
S-2 (0.5'-1')	3/15/2023		X		G	1
S-2 (1.0'-1.5')	3/15/2023		X		G	1
H-1 (0-0.5')	3/15/2023		X		G	1
H-2 (0-0.5')	3/15/2023		X		G	1
H-3 (0-0.5')	3/15/2023		X		G	1

ANALYSIS REQUEST		Preservative Codes	
		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	
		Sample Comments: <u>UO2</u>	

Barcode: 	
880-26040 Chain of Custody	

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Work Order No:

Page 2 of 2

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ ROWfields ☐ RC ☐ perfund

State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other

Project Manager	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimatex Energy
Address	310 W Wall St Ste 415	Address:	600 N Martenfield St, Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

[illegible]

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	3-16-23	<i>[Signature]</i>	
	11:29		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-26040-1

SDG Number: Lea County, New Mexico

Login Number: 26040

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 12, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: DOS EQUIS 12 FEDERAL COM 1H(06.16.2014)

Enclosed are the results of analyses for samples received by the laboratory on 04/05/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 12 FEDERAL COM 1H(06.16.	Sampling Condition:	Cool & Intact
Project Number:	1242	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NEW MEXICO		

Sample ID: H - 1 (0.5-1.0') (H231610-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/11/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2023	ND	216	108	200	20.6	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	208	104	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 12 FEDERAL COM 1H(06.16.)	Sampling Condition:	Cool & Intact
Project Number:	1242	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NEW MEXICO		

Sample ID: H - 1 (1.0-1.5') (H231610-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2023	ND	216	108	200	20.6	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	208	104	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 12 FEDERAL COM 1H(06.16.	Sampling Condition:	Cool & Intact
Project Number:	1242	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NEW MEXICO		

Sample ID: H - 4 (0.5-1.0') (H231610-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2023	ND	216	108	200	20.6	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	208	104	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 12 FEDERAL COM 1H(06.16.	Sampling Condition:	Cool & Intact
Project Number:	1242	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NEW MEXICO		

Sample ID: H - 4 (1.0-1.5') (H231610-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2023	ND	182	91.0	200	2.28	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	167	83.7	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 12 FEDERAL COM 1H(06.16.	Sampling Condition:	Cool & Intact
Project Number:	1242	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NEW MEXICO		

Sample ID: H - 5 (0-0.5') (H231610-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2023	ND	182	91.0	200	2.28	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	167	83.7	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 12 FEDERAL COM 1H(06.16.	Sampling Condition:	Cool & Intact
Project Number:	1242	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NEW MEXICO		

Sample ID: H - 6 (0-0.5') (H231610-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50		
Total BTX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2023	ND	182	91.0	200	2.28	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	167	83.7	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 4231610

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marientfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-6823	Email:	laci.luig@coterra.com Ashton.Thielke@coterra.com

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

Project Name:		Dos Equis 12 Federal Com 1H(06.16.2014)		Turn Around		ANALYSIS REQUEST												Preservative Codes															
Project Number:		1242		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code														None: NO DI Water: H ₂ O													
Project Location		Lea County, New Mexico		Due Date:																Cool: Cool MeOH: Me													
Sampler's Name:		GPJ																		HCL: HC HNO ₃ : HN													
PO #:																				H ₂ SO ₄ : H ₂ NaOH: Na													
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H ₃ PO ₄ : HP											
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:				113														NaHSO ₄ : NABIS											
Cooler Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor:				-0.6%														Na ₂ S ₂ O ₃ : NaSO ₃											
Sample Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Temperature Reading:				4.8%														Zn Acetate+NaOH: Zn											
Total Containers:				Corrected Temperature:				4.2%														NaOH+Ascorbic Acid: SAPC											
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments							
H-1 (0.5-1.0')		4/5/2023				X				G		1		X		X		X															
H-1 (1.0-1.5')		4/5/2023				X				G		1		X		X		X															
H-4 (0.5-1.0')		4/5/2023				X				G		1		X		X		X															
H-4 (1.0-1.5')		4/5/2023				X				G		1		X		X		X															
H-5 (0-0.5')		4/5/2023				X				G		1		X		X		X															
H-6 (0-0.5')		4/5/2023				X				G		1		X		X		X															

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	4-5-23 1330		

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 212330

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 212330
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	None	5/8/2023