CARMONA RESOURCES

SITE INFORMATION

Closure Report
Antelope Ridge 5 SWD Disposal (08.13.2023)
Incident #: NAPP2322844129
Lea County, New Mexico
Unit L Sec 33 T23S R34E
32.260195°, -103.479899°

Produced Water Release
Point of Release: Underground leak on the discharge line of the flex pump
Release Date: 08.13.2023
Volume Released: 11 Barrels of Produced Water
Volume Recovered: 0 Barrels of Produced Water

CARMONA RESOURCES

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

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

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

CARMONA RESOURCES

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

CARMONA RESOURCES

October 25, 2023

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

Re: Closure Report
Antelope Ridge 5 SWD Disposal (08.13.2023)
Chevron U.S.A., Inc.
Site Location: Unit L, S33, T23S, R34E
(Lat 32.260195º, Long -103.479899º)
Lea County, New Mexico

To whom it may concern:

On behalf of Chevron U.S.A., Inc. (Chevron), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Antelope Ridge 5 SWD Disposal. The site is located at 32.260195º, -103.479899º within Unit L, S33, T23S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on August 13, 2023, caused by an underground leak on the discharge line of the flex pump. It resulted in approximately eleven (11) barrels of produced water being released and zero (0) barrels of produced water recovered. The impacted area was located on pad, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, one known water source is within a 0.50-mile radius of the location. The closest well is approximately 0.40 miles Southeast of the site in S32, T23S, R34E and was drilled in 2013. The well has a reported depth to groundwater of 162.14' feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 1,000 mg/kg (GRO+DRO).
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- Chloride: 20,000 mg/kg.

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4.0 Site Assessment Activities

Initial Assessment

On September 12, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 through S-3) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 3' below ground surface (bgs) inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. 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 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was not achieved in the areas of S-1 through S-3 due to a dense rock layer. Refer to Table 1.

Horizontal Delineation

The area of H-1 exceeded regulatory limits for TPH, but were below the limits for benzene, total BTEX, and chlorides. The area of H-1 was addressed during remediation. The areas of H-2 through H-4 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on October 13, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 through S-3 and H-1 was excavated to a depth of 4.25' bgs. A total of three (3) confirmation floor samples were collected (CS-1 through CS-3), and six (6) sidewall samples (SW-1 through SW-6) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 70 cubic yards of material were excavated and transported offsite for proper disposal.

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6.0 Conclusions

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

Sincerely,
Carmona Resources, LLC

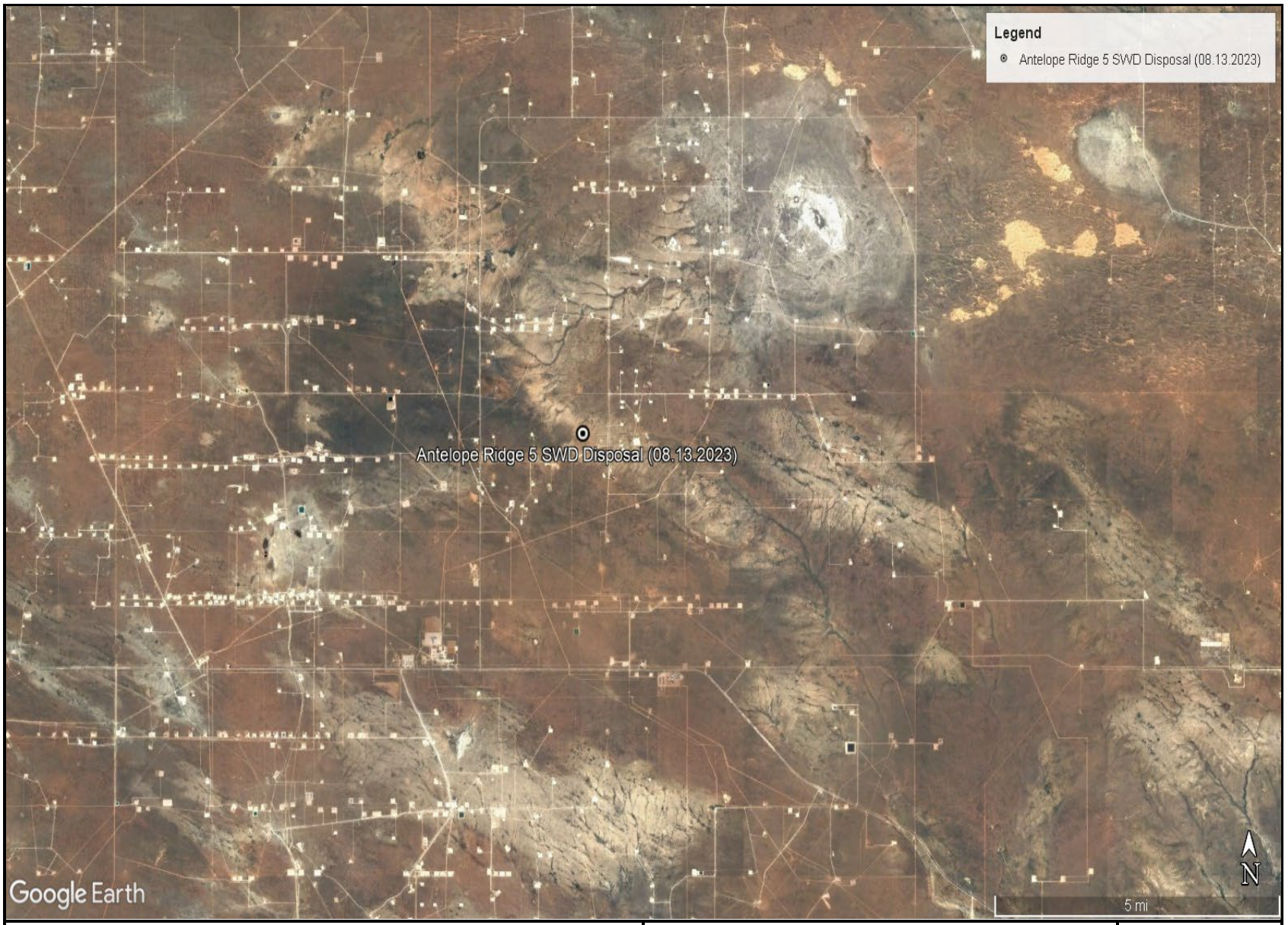
Mike Carmona
Environmental Manager

Ashton Thielke
Sr. Project Manager

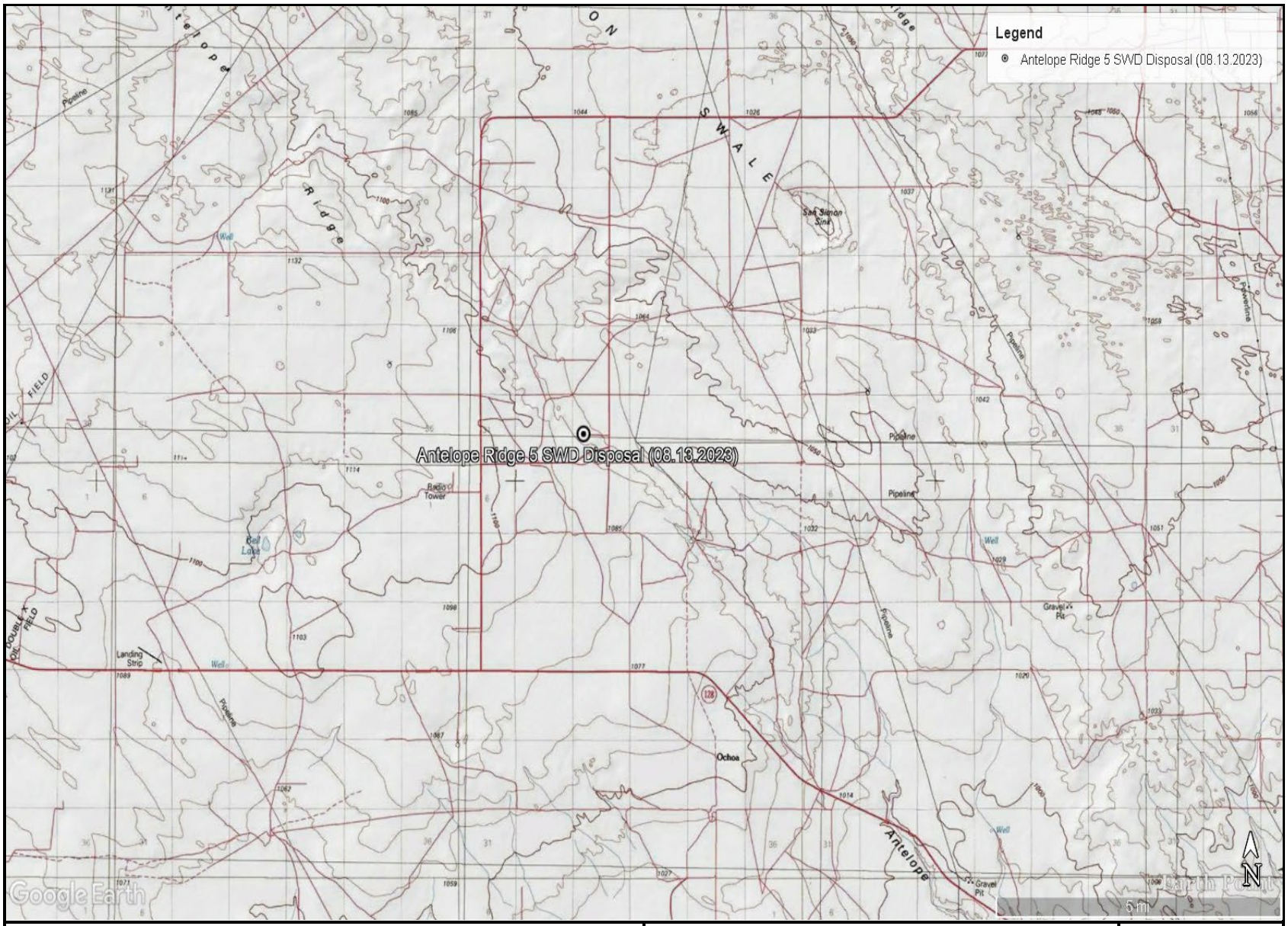
310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

FIGURES

CARMONA RESOURCES

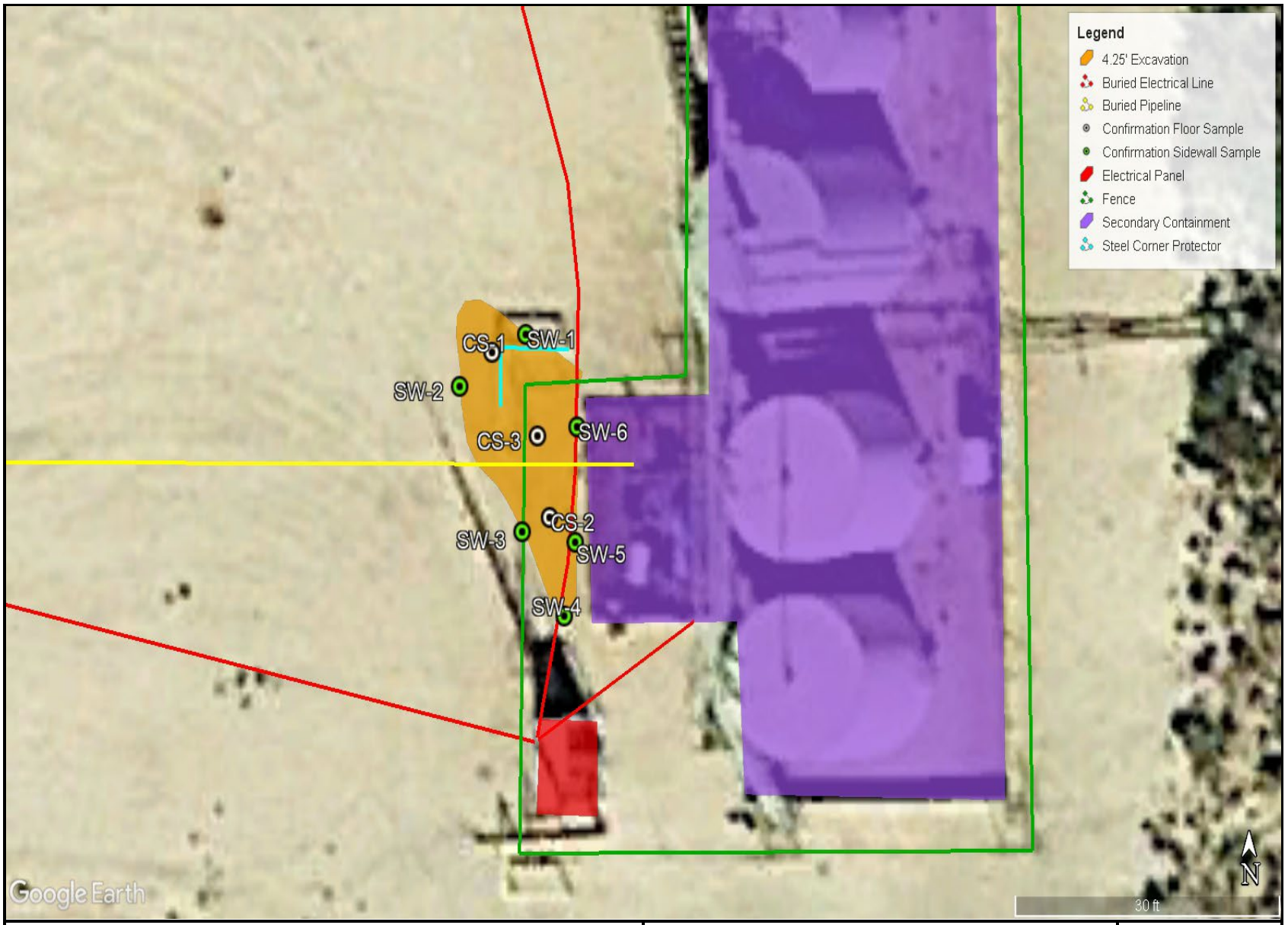


OVERVIEW MAP CHEVRON U.S.A., INC. ANTELOPE RIDGE 5 SWD DISPOSAL (08.13.2023) LEA COUNTY, NEW MEXICO 32.260195°, 103.479899°	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP CHEVRON U.S.A., INC. ANTELOPE RIDGE 5 SWD DISPOSAL (08.13.2023) LEA COUNTY, NEW MEXICO 32.260195°, 103.479899°	CARMONA RESOURCES	FIGURE 2

SAMPLE LOCATION MAP CHEVRON U.S.A., INC. ANTELOPE RIDGE 5 SWD DISPOSAL (08.13.2023) LEA COUNTY, NEW MEXICO 32.260195°, 103.479899°	CARMONA RESOURCES	FIGURE 3



EXCAVATION DEPTH MAP CHEVRON U.S.A., INC. ANTELOPE RIDGE 5 SWD DISPOSAL (08.13.2023) LEA COUNTY, NEW MEXICO 32.260195°, 103.479899°	CARMONA RESOURCES	FIGURE 4

APPENDIX A

CARMONA RESOURCES

Table 1
Chevron
Antelope Ridge 5 SWD Disposal (08.13.2023)
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	9/12/2023	0-1'	Area Hydrovaced during spill response									
	"	1.5'										
	"	2'										
	"	3'	<10.0	44.8	**106**	**151**	<0.050	<0.050	<0.050	<0.150	<0.300	**14,900**
S-2	9/12/2023	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**2,280**
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
	"	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
	"	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**4,120**
S-3	9/12/2023	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**3,920**
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
	"	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
	"	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**8,260**
H-1	9/12/2023	0-0.5'	<10.0	54.8	**165**	**220**	<0.050	<0.050	<0.050	<0.150	<0.300	384
H-2	9/12/2023	0-0.5'	<10.0	<10.0	13.8	13.8	<0.050	<0.050	<0.050	<0.150	<0.300	352
H-3	9/12/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
H-4	9/12/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
Regulatory Criteria [A]						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
(S) Soil Sample
(H) Horizontal Sample
Exceeds

Table 2
Chevron
Antelope Ridge 5 SWD Disposal (08.13.2023)
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						
CS-1	10/20/2023	4.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,220
CS-2	10/20/2023	4.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-3	10/20/2023	4.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
SW-1	10/20/2023	4.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-2	10/20/2023	4.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-3	10/20/2023	4.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-4	10/20/2023	4.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	10/20/2023	4.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-6	10/20/2023	4.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
Regulatory Criteria [A]						**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
(CS) Confirmation Floor Sample
(SW) Confirmation Sidewall Sample

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

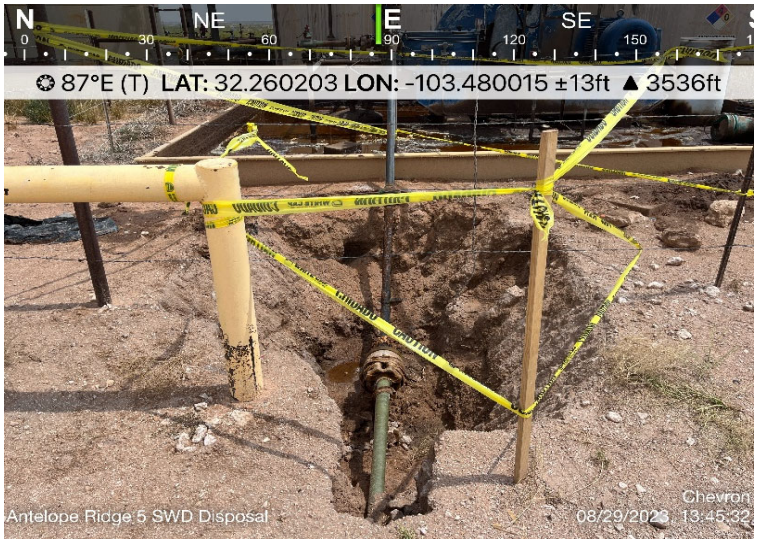
Chevron U.S.A., Inc.

Photograph No. 1

Facility: Antelope Ridge 5 SWD Disposal (08.13.2023)

County: Lea County, New Mexico

Description:
View East, area of point of release.



Photograph No. 2

Facility: Antelope Ridge 5 SWD Disposal (08.13.2023)

County: Lea County, New Mexico

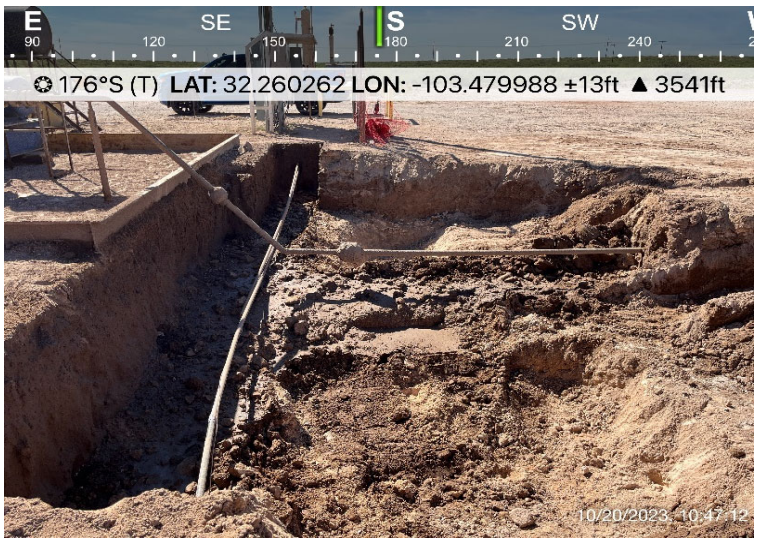
Description:
View Southeast, area of CS-1 through CS-3.

Photograph No. 3

Facility: Antelope Ridge 5 SWD Disposal (08.13.2023)

County: Lea County, New Mexico

Description:
View South, area of CS-1 through CS-3.



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 4

Facility: Antelope Ridge 5 SWD Disposal (08.13.2023)

County: Lea County, New Mexico

Description:
View Northeast, area of CS-4.

APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2322844129
District RP	
Facility ID	fAPP2132751397
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron U.S.A., Inc.	OGRID: 4323
Contact Name: Catherine Smith	Contact Telephone: 432-967-9487
Contact email: catherinesmith@chevron.com	Incident # nAPP2322844129
Contact mailing address:6301 Deauville Blvd Midland, TX 79706	

Location of Release Source

Latitude: 32.260195 Longitude: -103.479899
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Antelope Ridge 5 SWD Disposal	Site Type: Oil
Date Release Discovered: 8/13/2023	API# *(if applicable):*

Unit Letter	Section	Township	Range	County
L	33	23S	34E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name: Limestone Basin Prop Ranch LLC)*

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
☒ Produced Water	Volume Released (bbls): 11	Volume Recovered (bbls): 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Underground leak on the discharge line of the flex pump.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2322844129
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

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

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

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

Printed Name: ____Catherine Smith_____ Title: _Lead Environmental Specialist, Field Support _____

Signature: _____ Date: 8/16/2023_____

email: _____catherinesmith@chevron.com _____ Telephone: ____432-967-9487_____

OCD Only

Received by: Shelly Wells_____ Date: 8/16/2023_____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2322844129
District RP	
Facility ID	
Application ID	

Spill Calculations:

Measured from tank volumes.

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

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 252976
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/16/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____10-30-23_____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 10/31/2023

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: _____ Date: 10-30-23

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 10/31/2023

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

Closure Approved by: Nelson Velez Date: 02/20/2024

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

Ashton Thielke

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, October 18, 2023 1:47 PM
To: Ashton Thielke; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] NAPP2322844129 - ANTELOPE RIDGE 5 SWD DISPOSAL (08.13.2023) - Sample Notification

Good afternoon Ashton,

The update is appreciated! The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Ashton Thielke <ThielkeA@carmonaresources.com>
Sent: Wednesday, October 18, 2023 12:41 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] NAPP2322844129 - ANTELOPE RIDGE 5 SWD DISPOSAL (08.13.2023) - Sample Notification

Good afternoon Shelly,

Just wanted to give yall an update.
Confirmation sampling has been delayed due to unforeseen mechanical issues.
Confirmation sampling is now scheduled for 11:00 (MST) Friday, October 20th, weather and soil conditions permitting. Carmona Resources will be onsite to collect the confirmation samples.
Coordinates: 32.260195, -103.479899

Thank you,

Ashton Thielke
Senior Project Manager
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-8988 C: 281-753-5659
ThielkeA@carmonaresources.com

CARMONA RESOURCES

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, October 13, 2023 10:03 AM
To: Ashton Thielke <ThielkeA@carmonaresources.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Barnhill, Amy <ABarnhill@chevron.com>
Subject: RE: [EXTERNAL] NAPP2322844129 - ANTELOPE RIDGE 5 SWD DISPOSAL (08.13.2023) - Sample Notification

Hi Ashton,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Ashton Thielke <ThielkeA@carmonaresources.com>
Sent: Friday, October 13, 2023 8:55 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Barnhill, Amy <ABarnhill@chevron.com>
Subject: [EXTERNAL] NAPP2322844129 - ANTELOPE RIDGE 5 SWD DISPOSAL (08.13.2023) - Sample Notification

Good morning,

This email serves as notification for confirmation sampling on the Antelope Ridge 5 SWD Disposal release. Confirmation sampling is scheduled to begin as early as 09:00 (MST) Thursday, October 19th, weather and soil conditions permitting. Carmona Resources will be onsite to collect the confirmation samples.

Coordinates: 32.260195, -103.479899

Thank you,

Ashton Thielke
Senior Project Manager

310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-8988 C: 281-753-5659
ThielkeA@carmonaresources.com

CARMONA RESOURCES

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

Chevron U.S.A. Inc.

Legend

- 0.40 Miles
- 0.50 Mile Radius
- 0.79 Miles
- 0.79 Miles
- 0.89 Miles
- 1.05 Miles
- Antelope Ridge 5 SWD Disposal (08.13.2023)
- NMSEO Water Well
- USGS Water Well

Antelope Ridge 5 SWD Disposal (08.13.2023)

130' - Drilled 2013

162.14' - Drilled 2013

390' - Drilled 2018

440.57' - Drilled 2013

475' - Drilled 1960

Google Earth

N

3000 ft

Low Karst

Chevron U.S.A. Inc.

Legend

- Antelope Ridge 5 SWD Disposal (08.13.2023)
- Low

Antelope Ridge 5 SWD Disposal (08.13.2023)

Google Earth

Google Earth

3000 ft

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

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

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

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

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02386	CUB	LE	4	1	2	04	24S	34E	643962	3569290*	1268	575	475	100
C 02397	CUB	LE	4	1	2	04	24S	34E	643962	3569290*	1268	575	475	100
C 03620 POD1	CUB	LE	1	4	3	32	23S	34E	641790	3569941	1434	480	130	350
C 03932 POD3	CUB	LE	4	3	2	05	24S	34E	642442	3568787	1675	100		
C 04282 POD1	C	LE	1	2	1	05	24S	34E	641662	3569541	1694	574	390	184
C 04667 POD1	CUB	LE	3	4	3	20	23S	34E	641770	3572915	2979			
CP 01258 POD2	CP	LE	1	4	3	22	23S	34E	644941	3572883	3133	65		
CP 01258 POD3	CP	LE	1	4	3	22	23S	34E	644938	3573097	3310	25		
CP 01258 POD1	CP	LE	1	4	3	22	23S	34E	645015	3573221	3456	25		
C 04014 POD1	CUB	LE	1	1	3	06	24S	34E	639811	3568638	3753	91	81	10
C 04014 POD2	CUB	LE	4	4	2	01	24S	33E	639656	3568917	3784	95	81	14
C 04014 POD3	CUB	LE	2	4	2	01	24S	33E	639497	3569007	3901	95	87	8

Average Depth to Water: **245 feet**

Minimum Depth: **81 feet**

Maximum Depth: **475 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 643181.99 **Northing (Y):** 3570290.9 **Radius:** 4000

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

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	? S

Groundwater | New Mexico | GO

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321510103290801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321510103290801 23S.34E.32.44234

Lea County, New Mexico
Latitude 32°15'20.7", Longitude 103°29'03.5" NAD83
Land-surface elevation 3,573.00 feet above NGVD29
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 measur
1971-01-13		D	62610		3347.63	NGVD29	P	Z		
1971-01-13		D	62611		3349.30	NAVD88	P	Z		
1971-01-13		D	72019	225.37			P	Z		
1976-01-21		D	62610		3360.61	NGVD29	1	Z		
1976-01-21		D	62611		3362.28	NAVD88	1	Z		
1976-01-21		D	72019	212.39			1	Z		
1981-03-27		D	62610		3362.87	NGVD29	1	Z		
1981-03-27		D	62611		3364.54	NAVD88	1	Z		
1981-03-27		D	72019	210.13			1	Z		
1986-03-20		D	62610		3366.03	NGVD29	1	Z		
1986-03-20		D	62611		3367.70	NAVD88	1	Z		
1986-03-20		D	72019	206.97			1	Z		
1991-05-31		D	62610		3368.73	NGVD29	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code		Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S	
1991-05-31		D	62611		3370.40	NAVD88	1	Z	
1991-05-31		D	72019	204.27			1	Z	
1996-03-08		D	62610		3366.14	NGVD29	1	S	
1996-03-08		D	62611		3367.81	NAVD88	1	S	
1996-03-08		D	72019	206.86			1	S	
2013-01-16	23:00 UTC	m	62610		3410.86	NGVD29	1	S	USGS
2013-01-16	23:00 UTC	m	62611		3412.53	NAVD88	1	S	USGS
2013-01-16	23:00 UTC	m	72019	162.14			1	S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2023-08-25 14:40:24 EDT
0.29 0.25 nadww01

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 02386	4	1	2	04	24S	34E	643962	3569290*

Driller License: **Driller Company:**

Driller Name: SHELL OIL

Drill Start Date:		**Drill Finish Date:**	01/31/1960	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	30 GPM
Casing Size:	5.00	**Depth Well:**	575 feet	**Depth Water:**	475 feet

Meter Number:	17869	**Meter Make:**	NEPTUNE
Meter Serial Number:	70241623	**Meter Multiplier:**	100.0000
Number of Dials:	6	**Meter Type:**	Diversion
Unit of Measure:	Gallons	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
12/01/2018	2018	206390	A	RPT		0	

**YTD Meter Amounts:	Year	Amount
	2018	0

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

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321445103282301

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321445103282301 24S.34E.04.21431

Lea County, New Mexico
Latitude 32°15'03.8", Longitude 103°28'18.7" NAD83
Land-surface elevation 3,550.00 feet above NGVD29
The depth of the well is 630 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 measur
1968-06-11		D	62610		3204.46	NGVD29	P	Z		
1968-06-11		D	62611		3206.10	NAVD88	P	Z		
1968-06-11		D	72019	345.54			P	Z		
1970-12-08		D	62610		3207.44	NGVD29	1	Z		
1970-12-08		D	62611		3209.08	NAVD88	1	Z		
1970-12-08		D	72019	342.56			1	Z		
1976-01-21		D	62610		3203.31	NGVD29	1	Z		
1976-01-21		D	62611		3204.95	NAVD88	1	Z		
1976-01-21		D	72019	346.69			1	Z		
1986-03-20		D	62610		3204.00	NGVD29	1	Z		
1986-03-20		D	62611		3205.64	NAVD88	1	Z		
1986-03-20		D	72019	346.00			1	Z		
2013-01-16	22:30 UTC	m	62610		3109.43	NGVD29	P	S	USGS	

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 measur
2013-01-16	22:30 UTC	m	62611		3111.07	NAVD88	P	S	USGS	
2013-01-16	22:30 UTC	m	72019	440.57			P	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2023-08-25 14:42:33 EDT
0.31 0.27 nadww02

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03620 POD1	1	4	3	32	23S	34E	641790	3569941

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

Driller License:	1682	**Driller Company:**	HUNGRY HORSE, LLC.		
Driller Name:	NORRIS, JOHN D. (LD)				
Drill Start Date:	04/10/2013	**Drill Finish Date:**	04/29/2013	**Plug Date:**	
Log File Date:	06/18/2013	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	8.00	**Depth Well:**	480 feet	**Depth Water:**	130 feet

Water Bearing Stratifications:	Top	Bottom	Description
	14	30	Sandstone/Gravel/Conglomerate
	41	203	Shale/Mudstone/Siltstone
	203	215	Sandstone/Gravel/Conglomerate
	249	255	Sandstone/Gravel/Conglomerate
	362	367	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	0	480

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
2215A	C 04282 POD1	1	2	1	05	24S	34E	641662	3569541

Driller License: 1641 **Driller Company:** A & K WATER WELL DRILLING

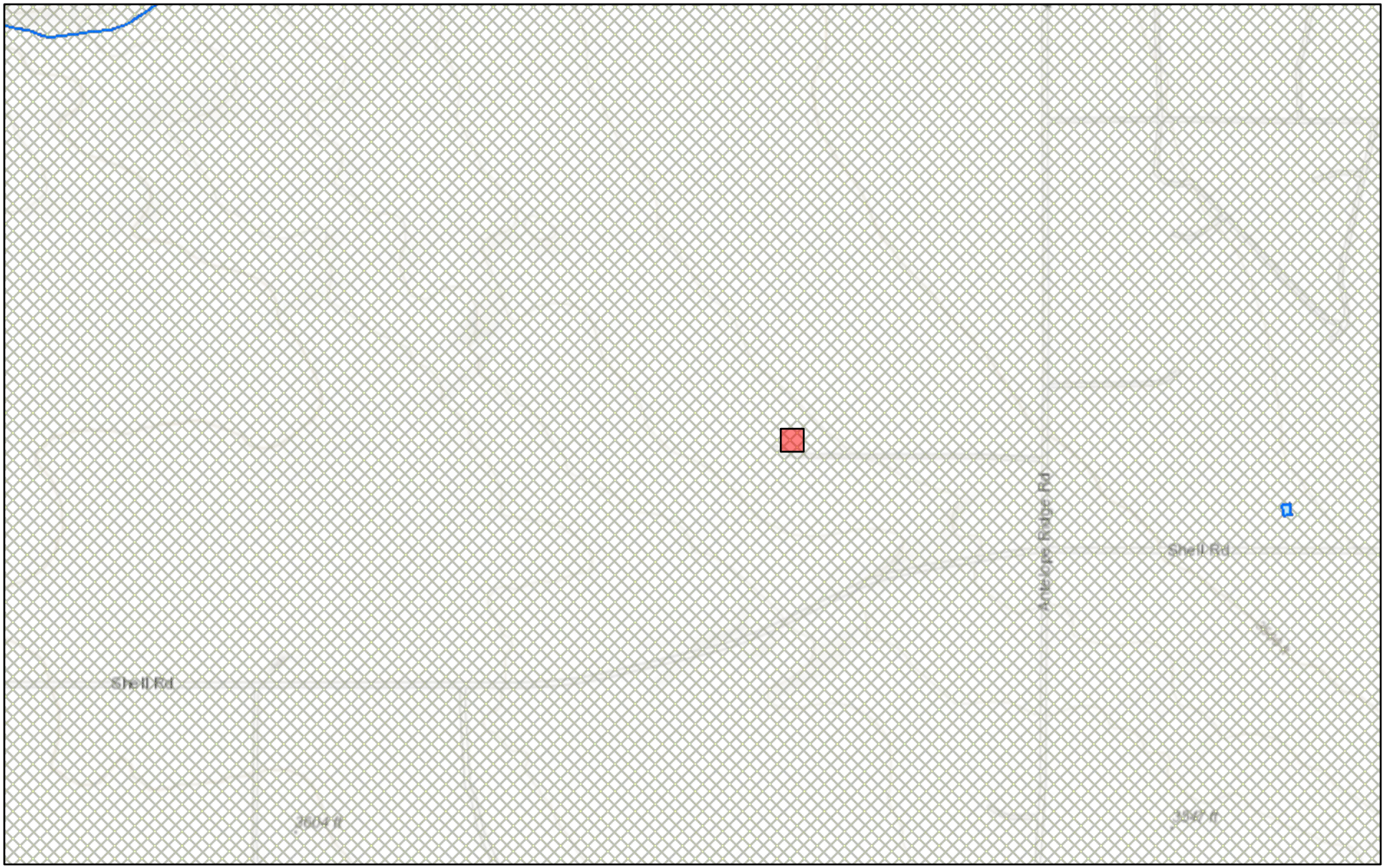
Driller Name: GLASSPOOLE, KRISTOPHER L.NER

Drill Start Date:	11/19/2018	**Drill Finish Date:**	11/23/2018	**Plug Date:**	
Log File Date:	03/27/2020	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	50 GPM
Casing Size:	6.00	**Depth Well:**	574 feet	**Depth Water:**	390 feet

Water Bearing Stratifications:	Top	Bottom	Description
	385	490	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	390	574

New Mexico NFHL Data



August 25, 2023

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

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

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APPENDIX E

CARMONA RESOURCES

CARDINAL Laboratories

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

September 15, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: ANTELOPE RIDGE 5 SWD DISPOSAL

Enclosed are the results of analyses for samples received by the laboratory on 09/12/23 15:23.

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

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

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Dionica Hinojos
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: H - 1 (0-6") (H234916-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	09/14/2023	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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	**54.8**	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	**165**	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *92.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Dionica Hinojos
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: H - 2 (0-6") (H234916-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	09/14/2023	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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	**13.8**	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *90.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Dionica Hinojos
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: H - 3 (0-6") (H234916-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	09/14/2023	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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *96.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Dionica Hinojos
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: H - 4 (0-6") (H234916-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	09/14/2023	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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *86.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H234916

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Amy Barnhill
Company Name:	Carmona Resources	Company Name:	Chevron
Address:	310 West Wall Ste. 500	Address:	6301 Deauville Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	Abarnhill@chevron.com & ThielkeA@Carmonaresources.com

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Antelope Ridge 5 SWD Disposal	Turn Around	☑ Routine ☐ Rush
Project Number:	2126	Due Date:	Normal
Project Location	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	GP		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes No
Received Intact:	(Yes) No	Thermometer ID:	140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	—
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.8°c
Total Containers:		Corrected Temperature:	—

Preservative Codes

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

	Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
1	H-1 (0-6")	9/12/2023		X		Grab/	1		X	X	X		
2	H-2 (0-6")	9/12/2023		X		Grab/	1		X	X	X		
3	H-3 (0-6")	9/12/2023		X		Grab/	1		X	X	X		
4	H-4 (0-6")	9/12/2023		X		Grab/	1		X	X	X		

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Tamara Maldonado	9/14/23 15:23	2		9/14/23 15:23
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

CARDINAL Laboratories

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

September 15, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: ANTELOPE RIDGE 5 SWD DISPOSAL

Enclosed are the results of analyses for samples received by the laboratory on 09/12/23 15:23.

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

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

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: S - 1 (3') (H234917-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**14900**	16.0	09/14/2023	ND	432	108	400	3.64	QM-07

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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	**44.8**	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	**106**	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *98.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *118 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: S - 2 (0-1') (H234917-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2280**	16.0	09/14/2023	ND	432	108	400	3.64	

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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *96.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: S - 2 (1.5') (H234917-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	09/14/2023	ND	432	108	400	3.64	

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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *95.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: S - 2 (2.0') (H234917-04)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	09/14/2023	ND	432	108	400	3.64	

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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *96.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: S - 2 (3.0') (H234917-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4120**	16.0	09/14/2023	ND	432	108	400	3.64	

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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *89.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: S - 3 (0-1') (H234917-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3920**	16.0	09/14/2023	ND	432	108	400	3.64	

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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *97.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *115 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: S - 3 (1.5') (H234917-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	09/14/2023	ND	432	108	400	3.64	

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	09/13/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane *93.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: S - 3 (2.0') (H234917-08)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	09/14/2023	ND	432	108	400	3.64	

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	09/14/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NEW MEXICO		

Sample ID: S - 3 (3.0') (H234917-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.95	97.6	2.00	2.29	
Toluene*	<0.050	0.050	09/14/2023	ND	2.04	102	2.00	2.63	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.11	106	2.00	2.34	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.73	95.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8260**	16.0	09/14/2023	ND	432	108	400	3.64	

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	09/14/2023	ND	175	87.5	200	3.56	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	198	98.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *133 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H234917

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Amy Barnhill
Company Name:	Carmona Resources	Company Name:	Chevron
Address:	310 West Wall Ste. 500	Address:	6301 Deauville Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	Abarnhill@chevron.com & ThielkeA@Carmonaresources.com

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Antelope Ridge 5 SWD Disposal	Turn Around	
Project Number:	2126	☑ Routine ☐ Rush	
Project Location	Lea Co, NM	Due Date:	Normal
Sampler's Name:	GP	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes No
Received Intact:	(Yes) No	Thermometer ID:	140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	—
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.8°c
Total Containers:		Corrected Temperature:	—

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
S-1 (3') R gpj	9/12/2023		X		Grab/	1		X	X	X		
S-2 (0-1')	9/12/2023		X		Grab/	1		X	X	X		
S-2 (1.5')	9/12/2023		X		Grab/	1		X	X	X		
S-2 (2.0')	9/12/2023		X		Grab/	1		X	X	X		
S-2 (3.0') R gpj	9/12/2023		X		Grab/	1		X	X	X		
S-3 (0-1')	9/12/2023		X		Grab/	1		X	X	X		
S-3 (1.5')	9/12/2023		X		Grab/	1		X	X	X		
S-3 (2.0')	9/12/2023		X		Grab/	1		X	X	X		
S-3 (3.0') R gpj	9/12/2023		X		Grab/	1		X	X	X		

1 2 3 4 5 6 7 8 9

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Tamara Oldaker	9/12/23 15:23	2		9/12/23 15:23
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

CARDINAL Laboratories

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

October 23, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: ANTELOPE RIDGE 5 SWD DISPOSAL

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 13:07.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NM		

Sample ID: CS - 1 (4.25) (H235765-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.01	100	2.00	7.92	
Toluene*	<0.050	0.050	10/20/2023	ND	2.05	103	2.00	9.60	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.06	103	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.01	100	6.00	10.4	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1220**	16.0	10/20/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	171	85.4	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	177	88.3	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane *90.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NM		

Sample ID: CS - 2 (4.25) (H235765-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.01	100	2.00	7.92	
Toluene*	<0.050	0.050	10/20/2023	ND	2.05	103	2.00	9.60	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.06	103	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.01	100	6.00	10.4	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/20/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	171	85.4	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	177	88.3	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane *94.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NM		

Sample ID: CS - 3 (4.25) (H235765-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.01	100	2.00	7.92	
Toluene*	<0.050	0.050	10/20/2023	ND	2.05	103	2.00	9.60	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.06	103	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.01	100	6.00	10.4	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *122 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	10/20/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	171	85.4	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	177	88.3	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane *97.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NM		

Sample ID: SW - 1 (4.25) (H235765-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.01	100	2.00	7.92	
Toluene*	<0.050	0.050	10/20/2023	ND	2.05	103	2.00	9.60	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.06	103	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.01	100	6.00	10.4	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	10/20/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	171	85.4	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	177	88.3	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane *91.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NM		

Sample ID: SW - 2 (4.25) (H235765-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.01	100	2.00	7.92	
Toluene*	<0.050	0.050	10/20/2023	ND	2.05	103	2.00	9.60	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.06	103	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.01	100	6.00	10.4	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	10/20/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	171	85.4	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	177	88.3	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NM		

Sample ID: SW - 3 (4.25) (H235765-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.01	100	2.00	7.92	
Toluene*	<0.050	0.050	10/20/2023	ND	2.05	103	2.00	9.60	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.06	103	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.01	100	6.00	10.4	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *125 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	10/20/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	171	85.4	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	177	88.3	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane *91.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NM		

Sample ID: SW - 4 (4.25) (H235765-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.01	100	2.00	7.92	
Toluene*	<0.050	0.050	10/20/2023	ND	2.05	103	2.00	9.60	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.06	103	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.01	100	6.00	10.4	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/20/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	171	85.4	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	177	88.3	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *119 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NM		

Sample ID: SW - 5 (4.25) (H235765-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.01	100	2.00	7.92	
Toluene*	<0.050	0.050	10/20/2023	ND	2.05	103	2.00	9.60	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.06	103	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.01	100	6.00	10.4	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	10/20/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	171	85.4	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	177	88.3	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane *95.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/20/2023	Sampling Date:	10/20/2023
Reported:	10/23/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 5 SWD DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	2126	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA COUNTY, NM		

Sample ID: SW - 6 (4.25) (H235765-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.01	100	2.00	7.92	
Toluene*	<0.050	0.050	10/20/2023	ND	2.05	103	2.00	9.60	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.06	103	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.01	100	6.00	10.4	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *119 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	10/20/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	171	85.4	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	177	88.3	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane *124 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *135 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H235765

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Amy Barnhill
Company Name:	Carmona Resources	Company Name:	Chevron
Address:	310 West Wall Ste. 500	Address:	6301 Deauville Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	Abarnhill@chevron.com & ThielkeA@Carmonaresources.com

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Antelope Ridge 5 SWD Disposal	Turn Around	
Project Number:	2126	☐ Routine	☑ Rush
Project Location	Lea Co, NM	Due Date:	24hr
Sampler's Name:	GP		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	—
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.5c
Total Containers:		Corrected Temperature:	

Preservative Codes

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

	Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
1	CS-1 (4.25')	10/20/2023		X		C	1		X	X	X		
2	CS-2 (4.25')	10/20/2023		X		C	1		X	X	X		
3	CS-3 (4.25')	10/20/2023		X		C	1		X	X	X		
4	SW-1 (4.25')	10/20/2023		X		C	1		X	X	X		
5	SW-2 (4.25')	10/20/2023		X		C	1		X	X	X		
6	SW-3 (4.25')	10/20/2023		X		C	1		X	X	X		
7	SW-4 (4.25')	10/20/2023		X		C	1		X	X	X		
8	SW-5 (4.25')	10/20/2023		X		C	1		X	X	X		
9	SW-6 (4.25')	10/20/2023		X		C	1		X	X	X		

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Tamara Wallace	10-20-23 1307	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

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 280960

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 280960
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/20/2024