Souder, Miller & Associates♦201 S. Halagueno St.♦Carlsbad, NM 88220
(575) 689-8801

October 8, 2024 #5E33088-BG1

NMOCD District 2
811 South First St
Artesia, NM 88210

SUBJECT: Closure Report for the Billiken 6 CTB 1 Release (nAPP2406642629), Lea County, New Mexico.

1.0 Introduction

On behalf of Devon Energy Production Company (Devon), Souder, Miller & Associates (SMA) has prepared this Closure Report that describes the remediation of a produced water release related to oil and gas production activities at the Billiken 6 CTB 1 facility (nAPP2406642629). The release site is located in Section 6, Township 26S, Range 35E, (32.07865, -103.41259) Lea County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on a United States Geological Survey (USGS) 7.5-minute quadrangle map. Site and release information is summarized below.

Release Information and Closure Criteria			
Name	Billiken 6 CTB 1	Company	Devon Energy Production Company
API Number	N/A	Location	S6, T26S, R35E 32.077038, -103.411220
Incident Number	nAPP2406642629	Land Status	Federal (BLM)
Date of Release	March 5, 2024		
Source of Release	Pinhole in ball valve		
Released Volume	17 bbls Produced Water	Recovered Volume	13 bbls Produced Water
NMOCD Closure Criteria	Depth to groundwater >100 feet bgs		

2.0 Background

On March 5, 2024, the lease operator discovered a pinhole leak in the ball valve water dump line, causing fluid to be released into the containment and within boundaries of the engineered pad. Total fluids released amounted to 17 barrels (bbls) of produced water inside and around the lined secondary containment of the tank battery. Initial response activities were conducted by the operator and included source elimination, site stabilization, and recovery of approximately 13 bbls of produced water. A copy of the C-141 is provided in Appendix A.

3.0 Site Information and Closure Criteria

The Billiken 6 CTB 1 Facility is located approximately 11.7 miles west of Bennett, New Mexico, on Federal (BLM) land at an elevation of approximately 3,415 feet above mean sea level (amsl).

Depth to Groundwater

A search of the New Mexico Office of the State Engineer (NMOSE) New Mexico Water Rights Reporting System (NMWRRS) and the USGS National Water Information System for depth to groundwater yielded no results within ½ mile of the site. Per the well plugging plan for POD C-4601, depth to groundwater (DTGW) was determined to be greater than 100 feet below ground surface (bgs), but it is located outside of the ½ mile radius.

Devon and SMA submitted a WR-07 *Application for Permit to Drill a Well with No Water Rights* and a WD-08 *Well Plugging Plan of Operations* to NMOSE to drill a temporary borehole for DTGW determination. NMOSE reported the temporary borehole as C-4846-POD1 and has been added to the NMWRRS website. The temporary borehole is located 0.16 miles or 843 feet away from the point of release. With approval of the temporary borehole, John Scarborough Drilling Inc (Scarborough) was contracted to conduct the drilling of the borehole. On July 17, 2024, Scarborough drilled the temporary borehole to a total depth of 101 feet bgs and allowed to remain open for a minimum of 72 hours. On July 22, 2024, an SMA representative used a Heron water detection and measuring tape to measure for the detection of groundwater. Groundwater was not detected in the temporary borehole. Scarborough plugged the borehole on July 24, 2024 with bentonite chips.

NMOSE permits and documentation for drilling and plugging the temporary borehole is included in Appendix B. The location of the temporary borehole is shown on Figure 1.

Wellhead Protection Area

There are no known water sources within a ½ mile of the location, according to the NMOSE NMWRRS and USGS National Water Information System. Registered wells in the vicinity are shown in Figure 1.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed ephemeral draw approximately 0.32 miles away from the location. The nearest significant watercourse is the Pecos River, located approximately 2.78 miles to the south.

Distance to Sensitive Areas

The site does not lie within a sensitive area as described in Paragraph (4) of Subsection (C) of 19.15.29.12 NMAC, as illustrated in Figures 1 and 2.

Closure Criteria Determination

Based on the information presented herein, this site's applicable NMOCD Closure Criteria is set to the standards for depth to groundwater greater than 100 feet bgs.

4.0 Release Characterization

On April 13, 2024, SMA personnel performed initial site delineation and sampling.

A total of seven borehole soil samples, BH01 through BH07, were advanced in and around the visibly stained area using a hand auger to depths ranging from 0 to 4 feet bgs. A total of 17 delineation samples were collected from the release area per the sampling protocol included in Appendix D. Soil samples were field screened for chloride using an electrical conductivity (EC) meter. Soil boring locations are illustrated in Figure 3, field screening results are summarized in Table 3, and field notes and a photographic log are included in Appendix C.

All samples were submitted for laboratory analysis, including total chloride using the United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel, and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D. Laboratory analytical results are summarized in Table 3, and laboratory reports are included in Appendix E.

5.0 Remediation Activities and Closure Sampling

Excavation activities were performed by a Devon construction crew with SMA oversight. Excavation activities lasted approximately two weeks. The impacted area was excavated by hand digging in all contaminated areas near pipelines and machinery. The impacted soil was moved directly from the excavation by the backhoe to a dump truck for removal from the site. The final remediation excavation at the most significant dimension measured approximately 59 feet by 39 feet with a maximum depth of 0.5 feet.

SMA personnel performed closure confirmation sampling on August 29, 2024. A total of 14 closure confirmation samples were collected from the base and sidewalls of the excavation and submitted for laboratory analysis. Excavation samples were composed of 5-point composites collected every 200 square feet or less in accordance with the sampling protocol included in Appendix D. The confirmation samples were analyzed for chloride, BTEX, and TPH in the same manner as described above for the initial release assessment samples. Confirmation sample locations are illustrated in Figure 4.

Laboratory analytical results report chloride, benzene, total BTEX, and total TPH concentrations below laboratory reporting limits (RLs) which are below the NMOCD Closure Criteria.

Excavated soils were transported to an NMOCD-permitted surface waste facility for remediation/disposal. The excavation was backfilled with clean, imported material and graded to match the surrounding area. Excavation extents and closure confirmation sample locations are depicted in Figure 4. The Photolog in Appendix C depicts closure sampling events. Confirmation laboratory results are summarized in Table 3, and laboratory reports are included in Appendix E.

6.0 Recommendations

As demonstrated in Table 3, all closure confirmation samples meet NMOCD Closure Criteria. This site had been remediated to meet the standards of Table I of 19.15.29.12 NMAC. SMA respectfully requests closure of the site for release incident nAPP2406642629.

7.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation guidance; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Monica Peppin at (575) 909-3418.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Monica Peppin
Project Manager

Reviewed by:

Stephanie Hinds, P.E.
Senior Engineer

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database
Httpe://gis.ose.state.nm.us/gisapps/ose_pod_locations/
USGS National Water Information System: Web interface online water well database
https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=321205103544701&agency_cd=USGS&format=html

ATTACHMENTS:

Figures:

Figure 1: Topographic Site Map
Figure 2: Aerial Site Map
Figure 3: Delineation Sampling Locations
Figure 4: Confirmation Sample Location Map

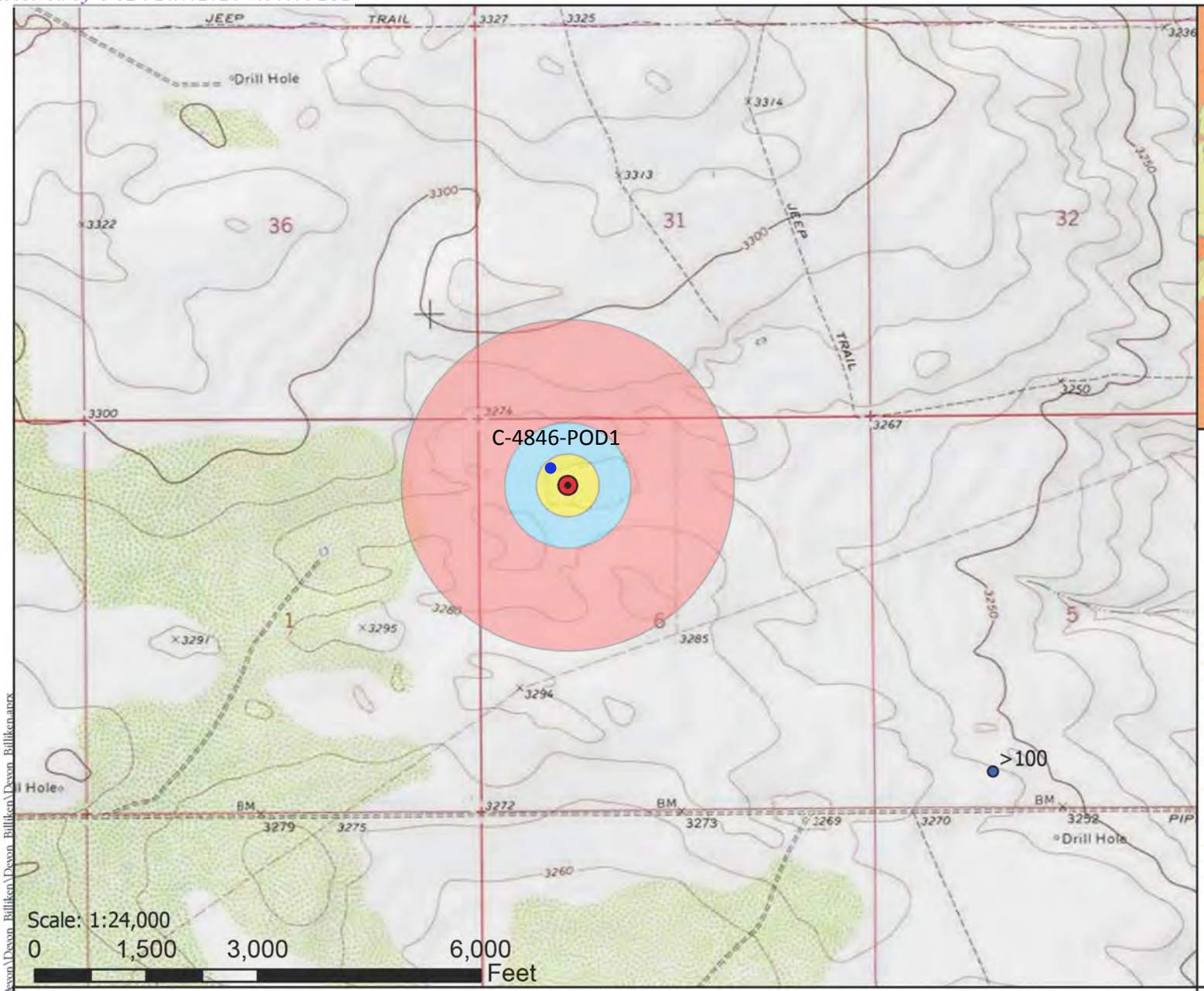
Tables:

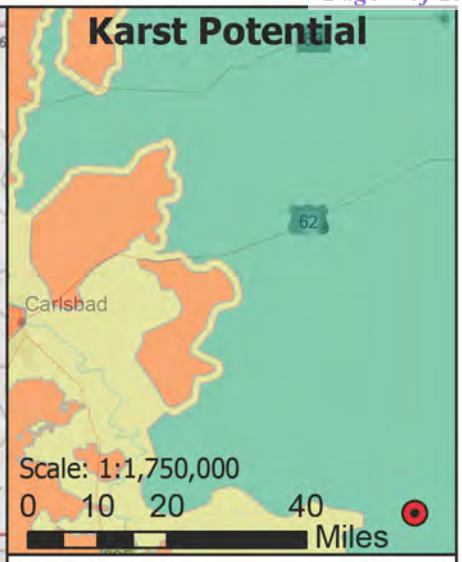
Table 1: NMOCD Closure Criteria
Table 2: Summary of Initial Release Assessment Field Screening and Laboratory Analytical Results
Table 3: Summary of Excavation Confirmation Laboratory Analytical Results

Appendices:

Appendix A: Correspondence
Appendix B: Water Well Data
Appendix C: Field Notes and Photograph Log
Appendix D: Sampling Protocol
Appendix E: Laboratory Analytical Report

FIGURES





Legend

- Point of Release
- USGS GW Wells (depth in ft)
- OSE GW Wells (depth in ft)

Buffer Distance

- 500 feet
- 1000 feet
- 0.5 mile

Karst Potential

- High
- Medium
- Low

N

Point of Release Coordinates:
-103.41259W 32.07865N

Topographic Site Map
Billiken 6 CTB 1 - Devon Energy Production Co.
UL: D S: 6 T: 26S R: 35E, Lea County, New Mexico

Figure 1

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Date Saved: 3/25/2024

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By:_____ Date:_____ Descr:_____
By:_____ Date:_____ Descr:_____

Drawn Sarahmay Schlea
Date 3/25/2024
Checked
Approved

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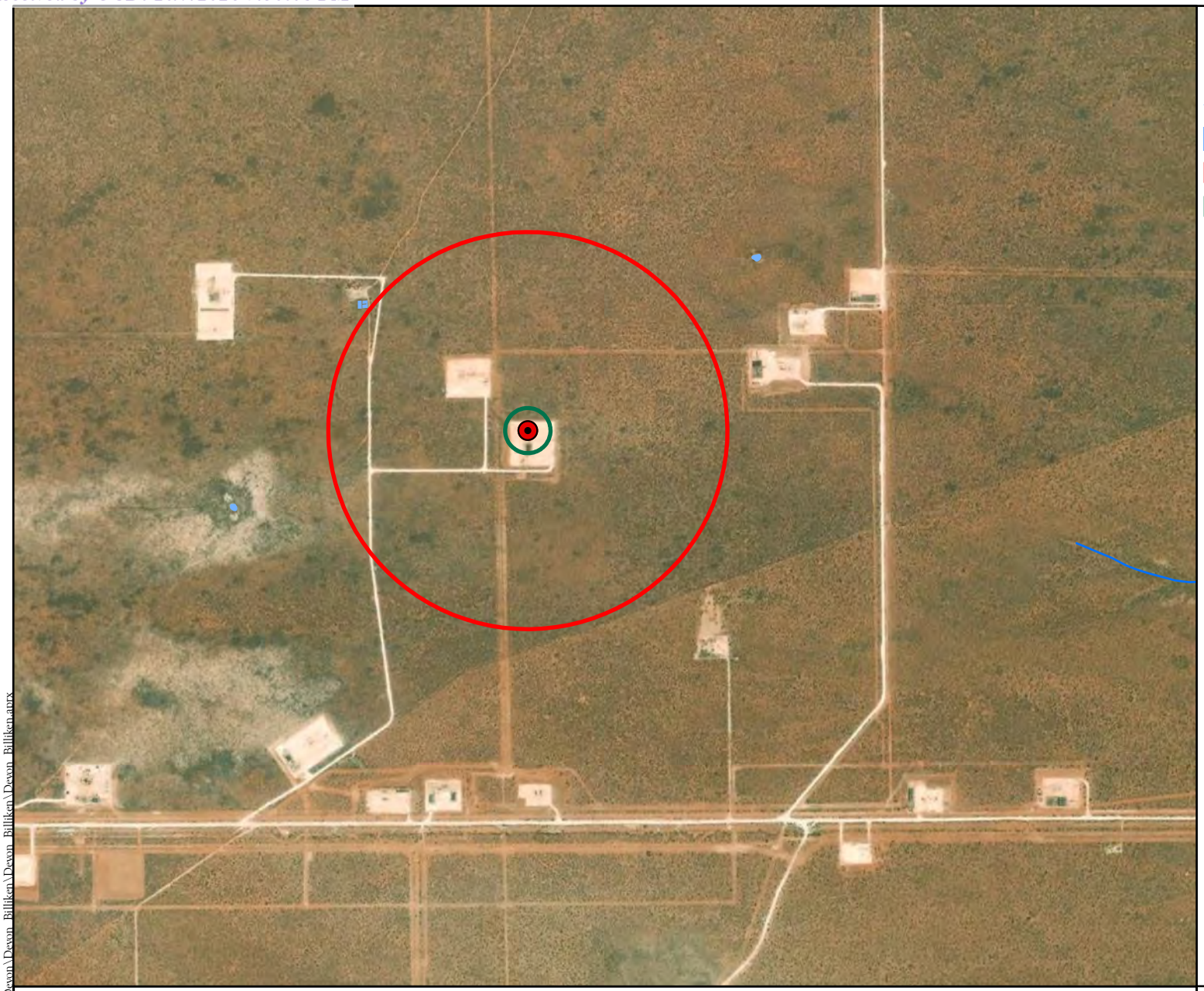

Legend

- Point of Release
- Streams/Canals/Flowlines
- Lakes/Playas/Evaporation Ponds
- 0.5 Mile Radius
- 300 Foot Radius

0 1,500 3,000

Feet

Scale: 1:20,000

N

Point of Release Coordinates:
-103.41259W 32.07865N

Aerial Site Map
Billiken 6 CTB 1 - Devon Energy Production Co.
UL: D S: 6 T: 26S R: 35E, Lea County, New Mexico

Figure 2

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Drawn Sarahmay Schlea
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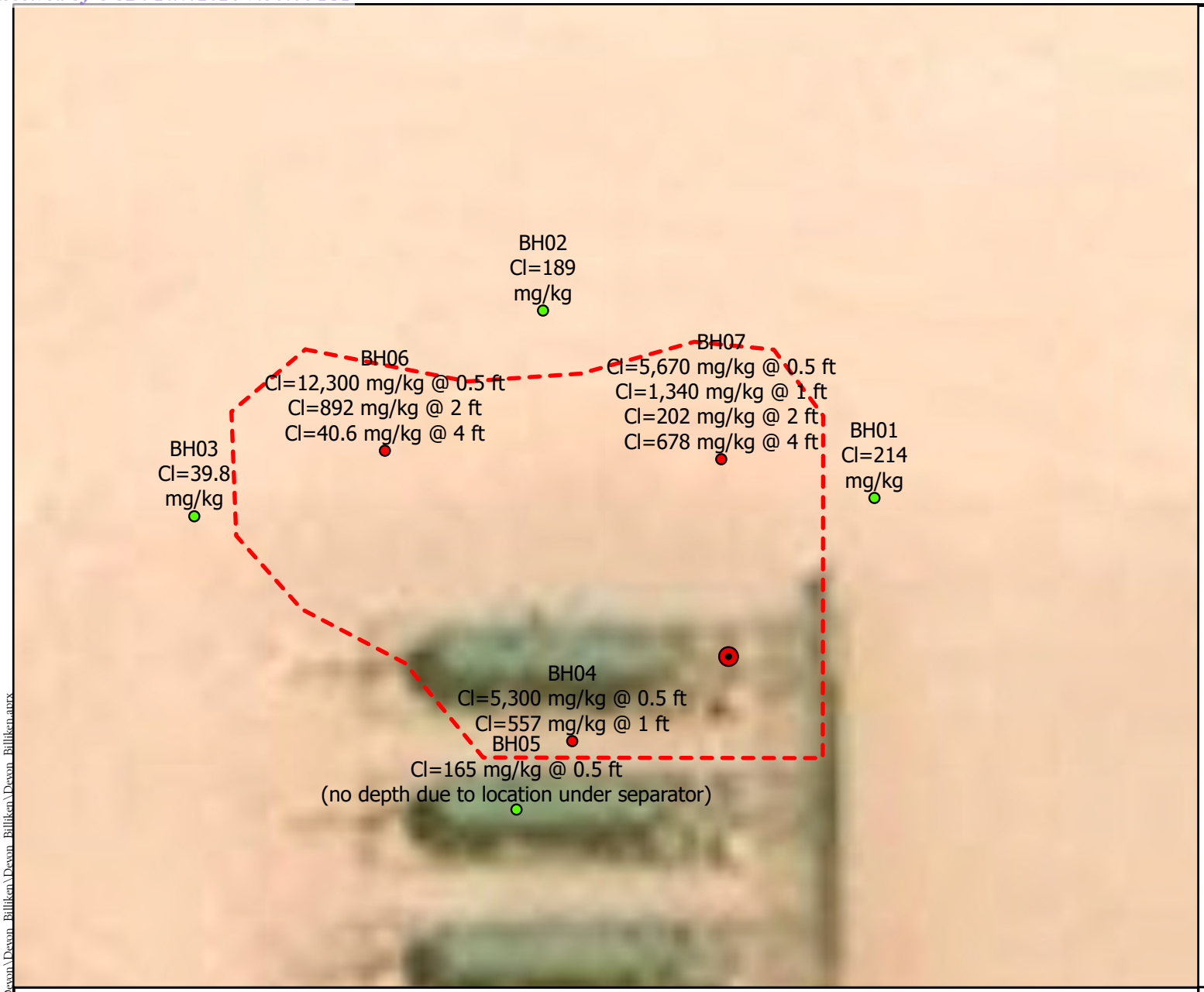

Legend

- Point of Release
- Area Already Excavated to 0.5 ft

Delineation Sample Locations

- Above Closure Criteria
- Below Closure Criteria

0 5 10 20

Feet

Scale: 1:180

N

Point of Release Coordinates:
-103.41259W 32.07865N

Site and Sample Location Map
Billiken 6 CTB 1 - Devon Energy Production Co.
UL: D S: 6 T: 26S R: 35E, Lea County, New Mexico

Figure 3

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Date Saved: 4/19/2024

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Sarahmay Schlea
Date 5/6/2024
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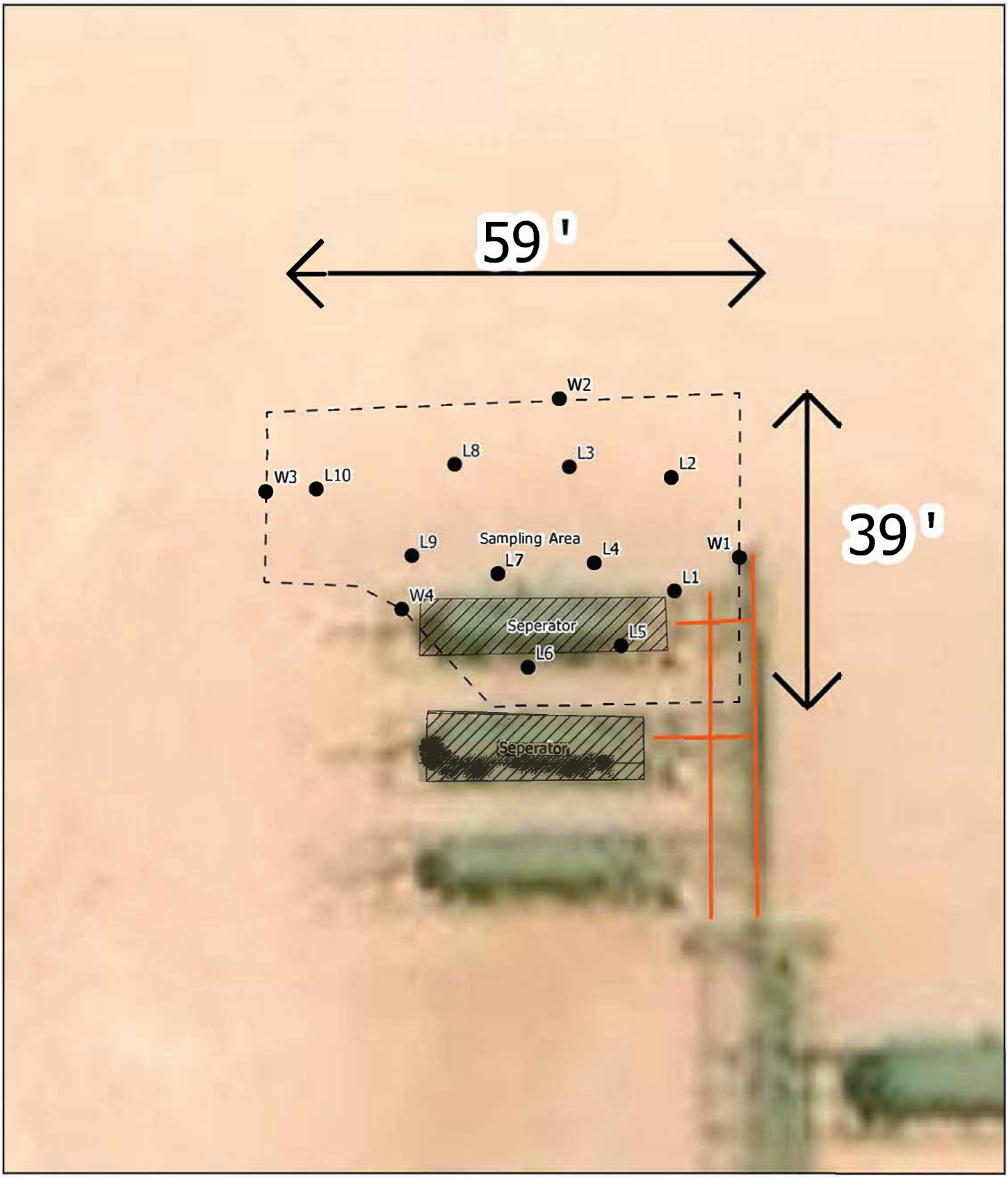

Sample Point | Seperator

Flowline | Excavation Area 0.5 ft bgs (1,915 sq ft)

SMA

0 5 10 20 ft.

NAD 1983 2011 UTM Zone 13N

Date: 9/10/2024

Map Center:
Lat: 32.077069°,
Long: -103.411213°

N

Confirmatory Sample Locations
Billiken

FIGURE: 4

devon

Geospatial data presented in this figure may be derived from external sources and SMA does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background image from Esri, 2024. Feature locations from GPS, SMA.

TABLES

Table 1:
NMOCD Closure Criteria

Devon Energy
Billiken 6 CTB 1 nAPP2406642629

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	>100' bgs	Temporary borehole drilled July 17, 2024. DTGW > 101' bgs.
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	none	NMOSE NMWRRS reviewed. None within 1/2 mile.
Hortizontal Distance to Nearest Significant Watercourse (ft)	2,545'	Evaporation pond to northwest.

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		**Closure Criteria (units in mg/kg)**				
		Chloride *numerical limit or background, whichever is greater	**TPH**	**GRO + DRO**	**BTEX**	**Benzene**
< 50' bgs		600	100		50	10
51' to 100' bgs		10000	2500	1000	50	10
>100' bgs	X	20000	2500	1000	50	10
Surface Water	**yes or no**	**if yes, then**				
<300' from continuously flowing watercourse or other significant watercourse?	no	20000	2500	1000	50	10
<200' from lakebed, sinkhole or playa lake?	no					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	no					
<1000' from fresh water well or spring?	no					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	no					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	no					
<100' from wetland?	no					
within area overlying a subsurface mine	no					
within an unstable area?	no, low karst potential					
within a 100-year floodplain?	no					

bgs: below ground surface

SMA #

Client: Devon Energy
Site: Billiken 6 CTB 1
Incident ID #: nAPP2406642629

Project #: 5E33088
Lab Report #: E404232

Table 2. Initial Characterization Sample Field Screen and Laboratory Analysis Results

Sample Description			Petroleum Hydrocarbons							Inorganic Method 300.0
			Volatile Method 8021		Extractable Method 8015					
Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX (TOTAL)	Gasoline Range Organics (GRO)	Diesel Range Organics DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (GRO+DRO+MRO)	Chloride Concentration
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Reclamation <4 ft bgs			**10**	**50**				**0**	**100**	600
Closure Criteria 51-100 feet								**0**	**2,500**	20,000
BH01	4.13.2024	0	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	214
	4.13.2024	4	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH02	4.13.2024	0	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	189
	4.13.2024	4	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH03	4.13.2024	0	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	39.8
	4.13.2024	4	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH04	4.13.2024	0	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	**5300**
	4.13.2024	1	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	557
	4.13.2024	4	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	94.4
BH05	4.13.2024	0	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	165
BH06	4.13.2024	0-0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	**12300**
	4.13.2024	2	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	**892**
	4.13.2024	4	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	40.6
BH07	4.13.2024	0-0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	**5670**
	4.13.2024	1	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	**1340**
	4.13.2024	2	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	202
	4.13.2024	4	<0.100	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	**678**

Client: Devon Energy
Site: Billiken 6 CTB 1
Incident ID #: nAPP2406642629

Project #: 5E33088
Lab Report #: E409034

Table 3. Confirmation Sample Field Screen and Laboratory Analysis Results

Sample Description			Petroleum Hydrocarbons							Inorganic Method 300.0
			Volatile Method 8021		Extractable Method 8015					
Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX (TOTAL)	Gasoline Range Organics (GRO)	Diesel Range Organics DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (GRO+DRO+MRO)	Chloride Concentration
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Reclamation <4 ft bgs			**10**	**50**				**0**	**100**	**600**
Closure Criteria 51-100 feet								**1,000**	**2,500**	**20,000**
L1	8.28.2024	0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	349
L2	8.28.2024	0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	345
L3	8.28.2024	0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	336
L4	8.28.2024	0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	213
L5	8.28.2024	0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	463
L6	8.28.2024	0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	385
L7	8.28.2024	0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	245
L8	8.28.2024	0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	356
L9	8.28.2024	0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	347
L10	8.28.2024	0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	283
W1	8.28.2024	0-0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	343
W2	8.28.2024	0-0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	322
W3	8.28.2024	0-0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	382
W4	8.28.2024	0-0.5'	<0.10	<0.025	<20.0	<25.0	<50.0	<45.0	<95.0	323

APPENDIX A: CORRESPONDENCE

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	nAPP2406642629
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company, LP	OGRID 6137
Contact Name Dale Woodall	Contact Telephone 575-748-1838
Contact email dale.woodall@dvn.com	Incident # *(assigned by OCD)*
Contact mailing address 333 West Sheridan Ave. Oklahoma City, OK 73102	

Location of Release Source

Latitude 32.077038 Longitude -103.411220
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Billiken 6 CTB 1	Site Type CTB
Date Release Discovered 3/5/2024	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
D	6	26S	35E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 17BBL	Volume Recovered (bbls) 13 BBL
	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

Pin hole in the ball valve located on the water dump line

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2406642629
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: Dale Woodall Title: Environmental Professional

Signature: _____ Date: _____

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP24026642629
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2406642629
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: Dale Woodall Title: Environmental Professional

Signature: _____ Date: _____

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2406642629
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Dale Woodall Title: Environmental Professional

Signature: _____ Date: _____

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2406642629
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: Dale Woodall Title: Environmental Professional

Signature: _____ Date: _____

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

From: Velez, Nelson, EMNRD
To: Stephanie Hinds
Cc: dale.woodall@dvn.com; Reid Allan; Georgeann Goodman; Bratcher, Michael, EMNRD
Subject: Re: [EXTERNAL] RE: Request for Extension for Devon Energy at Billiken 6 CTB 1 (nAPP2406642629)
Date: Monday, June 10, 2024 10:35:11 AM
Attachments: image001.png
image002.png
image003.png
image004.png
Outlook-djvmhpyt.png

Good morning Stephanie,

Thank you for your correspondence. Your 90-day time extension request is approved. Remediation Due date has been updated to September 9, 2024.

Assure in the future that your request is prior to the expiration of the due date. Failure to do so may lead to your request being denied.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, June 10, 2024 9:36 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] RE: Request for Extension for Devon Energy at Billiken 6 CTB 1 (nAPP2406642629)

From: Stephanie Hinds <stephanie.hinds@soudermiller.com>
Sent: Monday, June 10, 2024 9:28 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Woodall, Dale <Dale.Woodall@dvn.com>; Reid Allan <reid.allan@soudermiller.com>; Georgeann Goodman <Georgeann.Goodman@soudermiller.com>
Subject: [EXTERNAL] RE: Request for Extension for Devon Energy at Billiken 6 CTB 1 (nAPP2406642629)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

On behalf of Devon Energy, SMA would like to respectfully request an extension of 90 days for the Billiken 6 CTB 1 - nAPP2406642629 incident. We are currently waiting for an OSE Well permit to be approved before we begin excavation. The release has been delineated, and the temporary well/borehole will verify excavation extents.

Please let us know if you have any questions or concerns.

Thank you for your time,

Stephanie Hinds, P.E.
Senior Engineer

Direct/Mobile: 505.793.7079
Office: 505.302.1127

112 W. Montezuma Ave, Suite 3
Cortez, CO 81321

P.E. licensed in CO & NM

SMA Since 1985

Stronger Communities by Design

www.soudermiller.com

Re: [EXTERNAL] nAPP2406642629 Billiken 6 CTB 1 Extension Request

Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Thu 9/5/2024 11:08 AM

To:Monica Peppin <Monica.Peppin@soudermiller.com>
Cc:Woodall, Dale <Dale.Woodall@dvn.com>;Stephanie Hinds <stephanie.hinds@soudermiller.com>;Georgeann Goodman <Georgeann.Goodman@soudermiller.com>

Good morning Monica,

Thank you for your inquiry. Your 30-day time extension request is approved. Remediation Due date has been updated to October 9, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Have a safe and pleasant day!

Regards,

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Monica Peppin <Monica.Peppin@soudermiller.com>
Sent: Tuesday, September 3, 2024 3:25 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Woodall, Dale <Dale.Woodall@dvn.com>; Stephanie Hinds <stephanie.hinds@soudermiller.com>; Georgeann Goodman <Georgeann.Goodman@soudermiller.com>
Subject: [EXTERNAL] nAPP2406642629 Billiken 6 CTB 1 Extension Request

Nelson,

On behalf of Devon Energy, SMA would like to request a 30-day extension for the referenced release at Billiken 6 CTB 1. We are waiting for the pending laboratory sample results and closure report is underway.

Thank you,

Monica

Monica Peppin, A.S.
Project Manager

Direct/Mobile: 806.228.5281
Office: 575.689.7040

201 S Halagueno St.
Carlsbad, NM 88220

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Re: [EXTERNAL] nAPP2406642629 Billiken 6 CTB 1 Extension Request

Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Thu 9/5/2024 11:08 AM

To:Monica Peppin <Monica.Peppin@soudermiller.com>
Cc:Woodall, Dale <Dale.Woodall@dvn.com>;Stephanie Hinds <stephanie.hinds@soudermiller.com>;Georgeann Goodman <Georgeann.Goodman@soudermiller.com>

Good morning Monica,

Thank you for your inquiry. Your 30-day time extension request is approved. Remediation Due date has been updated to October 9, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Have a safe and pleasant day!

Regards,

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

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Sent: Tuesday, September 3, 2024 3:25 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Woodall, Dale <Dale.Woodall@dvn.com>; Stephanie Hinds <stephanie.hinds@soudermiller.com>; Georgeann Goodman <Georgeann.Goodman@soudermiller.com>
Subject: [EXTERNAL] nAPP2406642629 Billiken 6 CTB 1 Extension Request

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Thank you,

Monica

Monica Peppin, A.S.
Project Manager

Direct/Mobile: 806.228.5281
Office: 575.689.7040

201 S Halagueno St.
Carlsbad, NM 88220

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Fwd: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 376047

Woodall, Dale <Dale.Woodall@dvn.com>
Wed 8/21/2024 8:44 AM
To:Monica Peppin <Monica.Peppin@soudermiller.com>

Dale Woodall
Environmental Professional
Hobbs, NM
Office: *575-748-1838*
Mobile: *405-318-4697*
Dale.Woodall@dvn.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, August 21, 2024 8:40:44 AM
To: Woodall, Dale <Dale.Woodall@dvn.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 376047

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2406642629.

The sampling event is expected to take place:

When: 08/23/2024 @ 10:00
Where: D-06-26S-35E 311 FNL 638 FWL (32.07865,-103.41259)

Additional Information: Sampler Info: Monica Peppin 806-228-5281

Additional Instructions: Directions: NM128 to Battle Axe Rd to Anthony Rd head East for 8 miles, turn left travelling North for 1 mile, turn right and location is at the end of the road on the left. 32.076646, -103.410990

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 376908

Woodall, Dale <Dale.Woodall@dvn.com>
Fri 8/23/2024 11:32 AM
To:Monica Peppin <Monica.Peppin@soudermiller.com>;Stephanie Hinds <stephanie.hinds@soudermiller.com>

Dale Woodall
Environmental Professional
Hobbs, NM
Office: 575-748-1838
Mobile: 405-318-4697
Dale.Woodall@dvn.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, August 23, 2024 11:32 AM
To: Woodall, Dale <Dale.Woodall@dvn.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 376908

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2406642629.

The sampling event is expected to take place:

When: 08/28/2024 @ 09:30
Where: D-06-26S-35E 311 FNL 638 FWL (32.07865,-103.41259)

Additional Information: Monica Peppin 806-228-5281

Additional Instructions: NM128 to Battle Axe Rd to Anthony Rd head East for 8 miles, turn left travelling North for 1 mile, turn right and location is at the end of the road on the left. 32.076646, -103.410990

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive

APPENDIX B: WATER WELL DATA

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DII APR 6 2022 PM 03:35

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD1 (TW-1)	WELL TAG ID NO.	OSE FILE NO(S.): C-4601
WELL OWNER NAME(S): Marathon Oil		PHONE (OPTIONAL)
WELL OWNER MAILING ADDRESS: 4111 S Tidwell Rd.		CITY: Carlsbad STATE: NM ZIP: 88220

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	3	58	N
LONGITUDE	103	23	33	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: SE SE Sw Sec. 05 T26S R35E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
3/31/2022	3/31/2022	temporary well	±100.8	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DATE STATIC MEASURED: 4/6/2022

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	100.8	±6.5	Boring	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-4601-POD 1	POD NO. 1	TRN NO. 721041	
LOCATION 26.35.05.343		WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Sand, medium/ fine grained poorly graded, Red	Y ✓ N	
4	19	15	Sand, medium/ fine grained poorly graded, Tan	Y ✓ N	
19	101	82	Sand, medium/ fine grained poorly graded, Reddish Brown	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

USE DIT APR 8 2022 PM3:16

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Carmelo Trevino, Cameron Pruitt

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 4/7/2022

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-4601-POD1	POD NO. 1	TRN NO. 721041	
LOCATION 26.35.05.343		WELL TAG ID NO. —	PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 721041
File Nbr: C 04601
Well File Nbr: C 04601 POD1

Apr. 08, 2022

MELODIE SANJARI
MARATHON OIL
4111 S TIDWELL RD
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 03/10/2022.

The Well Record was received in this office on 04/08/2022, stating that it had been completed on 03/31/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/10/2023.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Amaral
(575)622-6521

drywell

Atkins ENGINEERING ASSOCIATES INC.
2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

08/016/2021

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4601 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4601 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

OSE DII APR 8 2022 PM3:15

Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 761438
File Nbr: C 04846

Jun. 11, 2024

STEPHANIE HINDS
SOUDER MILLER & ASSOCIATES
401 W BROADWAY
FARMINGTON, NM 87401

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.

* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.

* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.

* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Rodolfo Chavez
(575)622-6521

Enclosure

explore

File No. C-04846 POD1

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable boxes):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☐	Pollution Control And/Or Recovery	☐	Ground Source Heat Pump	
☐ Exploratory Well*(Pump test)	☐	Construction Site/Public Works Dewatering	☒	Other(Describe)	Soil boring
☐ Monitoring Well	☐	Mine Dewatering			

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

☐ Check here if the borehole is anything other than vertifical (directional boring or angle boring) and include a schematic of your design.

☒ Temporary Request - Requested Start Date: 6/5/2024 Requested End Date: 8/31/2024

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

Note: if there is known artesian conditions, contamination or high mineral content at the drilling location, include the borehole log or a well log from an existing well at that location. If this information is not submitted, check box and attach form WD-09 to this form. ☐

1. APPLICANT(S)

Name: Devon Energy Corp	Name: Souder Miller & Associates
Contact or Agent: Dale Woodall — check here if Agent ☐	Contact or Agent: Stephanie Hinds — check here if Agent ☒
Mailing Address: 333 West Sheridan Avenue	Mailing Address: 401 W. Broadway
City: Oklahoma City	City: Farmington
State: Oklahoma Zip Code: 73102	State: NM Zip Code: 87401
Phone: (405) 318-4697 ☐ Home ☒ Cell Phone (Work):	Phone: 505-793-7079 ☐ Home ☒ Cell Phone (Work):
E-mail (optional): dale.woodall@dvn.com	E-mail (optional): stephanie.hinds@soundermiller.com

OSE DIV JUN 11 2024 PM 3:07

FOR OSE INTERNAL USE — Application for Permit, Form WR-07, Rev 02/29/2024

File No.: C-04846	Trn. No.: 761438	Receipt No.: 2-46919
Trans Description (optional):		
Sub-Basin: CUB	PCW/LOG Due Date: 6/11/25	

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type Please check the appropriate boxes, to indicate the information has been included and/or attached to this application

Exploratory*:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
Is proposed well a future public water supply well? ☐ Yes ☐ NO If Yes an application must be filed with NMED-DWB concurrently. ☐ Include a description of any proposed pump test, if applicable	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation ☐ The estimated maximum period of time for completion of the operation ☐ The annual diversion amount ☐ The annual consumptive use amount ☐ The maximum amount of water to be diverted and injected for the duration of the operation ☐ The method and place of discharge ☐ The method of measurement of water produced and discharged ☐ The source of water to be injected ☐ The method of measurement of water injected ☐ The characteristics of the aquifer ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system ☐ Proof of any permit required from the New Mexico Environment Department ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located	☐ Include a description of the proposed dewatering operation ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of	☐ Include a plan for pollution control/recovery, that includes the following ☐ A descr ption of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted ☐ The geohydrologic characteristics of the aquifer(s) ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation ☐ The quality of the water ☐ The method of measurement of water diverted ☐ The recharge of water to the aquifer ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights ☐ Information on existing wells, rivers springs, and wetlands within the area of hydrologic effect.
Monitoring*: ☐ Include the reason for the monitoring well, and, ☐ The duration of the planned monitoring		**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

(* if exploration or monitoring drilling activity is required by NMED, then you must also submit the NMED Work Plan)

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Stephanie Hinds, Souder, Miller & Associates, on behalf of Devon Energy Corp

Print Name(s)

affirm that the foregoing statements are true to the best of (my,our) knowledge and belief

Stephanie Hinds Digitally signed by Stephanie Hinds Date: 2024 06.04 09.27·54 -06'00'

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☑ approved ☐ partially approved ☐ denied

provided it is not exercised to the detr ment of any others having exist ng rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further sub ect to the attached conditions of approval

W tness my hand and seal this 11th day of June 20 24 , for the State Engineer

MIKE A. HAMMAN, P.E. , State Engineer

By K. Parekh
Signature

KASHYAP PAREKH
Print

Title: WATER RESOURCE MANAGER I
Print

FOR OSE INTERNAL USE Application for Permit Form WR-07 Version 02/29/2024

File No. C-04846 POD1 Trn No 761438

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.

17-1A Depth of the well shall not exceed the thickness of the valley fill.

17-4 No water shall be appropriated and beneficially used under this permit.

17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04846 POD1

File Number: C 04846
Trn Number: 761438

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.

17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.

17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

17-Q The State Engineer retains jurisdiction over this permit.

17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04846 POD1 must be completed and the Well Log filed on or before 06/11/2025.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 05/20/2024	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 11 day of Jun A.D., 2024

Mike A. Hamman, P.E., State Engineer

By: K. Parekh
KASHYAP PAREKH

Trn Desc: C 04846 POD1

File Number: C 04846
Trn Number: 761438

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)
NMNM125401

May 16, 2024

NM Office of the State Engineer
1900 W. Second St.
Roswell, NM 88201

Re: BILLIKEN 6 FEDERAL 1H/CTB
Sec 6, TS 26S, RE 35E
Lea County, New Mexico
30-025-42685
32.07865, -103.41259

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 101 feet below ground surface. The boring will be secured and left open for 72 hours at which time DEVON ENERGY PRODUCTION COMPANY LP will assess for the presence or absence of groundwater. Temporary PVC well material will be placed to total depth of the boring and secured at the surface. If water is encountered at any point during the boring, installation of the soil boring will be plugged using Portland Type I/II neat cement less than 6.0 gallons of water per 94lb sack. If no water is encountered, then the soil boring will be plugged. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

CRISHA MORGAN Digitally signed by CRISHA MORGAN
Date: 2024.05.16 12:08:56 -06'00'

Crisha A. Morgan
Certified Environmental Protection Specialist

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

June 11, 2024

Devon Energy
333West Sherian Ave
Oklahoma City, OK 73102

RE: Well Plugging Plan of Operations for well no. C-4846-Pod1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Samantha Davis
Water Resources Professional III

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: ~~TBD~~ C-4846-POD1

Name of well owner: Devon Energy Corp

Mailing address: 333 West Sheridan Avenue County:

City: Oklahoma City State: Oklahoma Zip code: 73102

Phone number: 4053184697 E-mail: dale.woodall@dvn.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Scarborough

New Mexico Well Driller License No.: WD-1188 Expiration Date: ~~3/31/2024~~ 3/31/2026

IV. WELL INFORMATION: ☑ **Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.**

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 04 min, 38.32 sec
Longitude: -103 deg, 24 min, 39.97 sec, NAD 83

2) Reason(s) for plugging well(s):

Soil boring to determine depth to ground water

OSE OIL MAR 20 2024 PM 4:53

3) Was well used for any type of monitoring program? N/A If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? N/A If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: N/A feet below land surface / feet above land surface (circle one)

6) Depth of the well: 101 feet

7) Inside diameter of innermost casing: N/A inches.

8) Casing material: N/A

9) The well was constructed with:

☐ an open-hole production interval, state the open interval: _____

☐ a well screen or perforated pipe, state the screened interval(s): _____

10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A

11) Was the well built with surface casing? N/A If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:

12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

☐ **If plugging method differs between multiple wells on same site, a separate form must be completed for each method.**

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Pressure grout with bentonite cement slurry using a tremmie pripe from bottom of hole to surface

2) Will well head be cut-off below land surface after plugging? _____

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: _____

4) Type of Cement proposed: type I/II Portland cement

5) Proposed cement grout mix: 5.5 gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: _____ batch-mixed and delivered to the site

x mixed on site

7) Grout additives requested, and percent by dry weight relative to cement:

6% bentonite

8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

VIII. SIGNATURE:

I, Stephanie Hinds, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Stephanie Hinds Digitally signed by Stephanie Hinds Date: 2024.02.19 12:26:57 -07'00' — May 8, 2024

Signature of Applicant — Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

RCVD DIT MAY 20 2024 and 31

X Approved subject to the attached conditions.

_____ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 11th day of June 2024

Mike A. Hamman, P.E., New Mexico State Engineer

By: Samantha Davis
Water Resources Professional III

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623- 8559

Applicant has identified wells, listed below, to be plugged.
John Scarborough Drilling Inc. (WD-1188)
will perform the plugging.

Permittee: Devon Energy
NMOSE Permit Number: C-4846-Pod1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4846-Pod1	2" (Soil Boring)	101	Unknown	32 04 38.32	103 24 39.97

Specific Plugging Conditions of Approval for Well located in Lea County, New Mexico.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.

2. Ground Water encountered: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 17.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 105 feet.

3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 2.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.

4. **Ground Water encountered:** Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.

5. **Dry Hole:** (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet – Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

7. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3 & 4 of these Specific Conditions of Approval.

8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.

10. NMOSE witnessing of the plugging of the shallow well will not be required.

11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.

12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 11th day of June, 2024

Mike A. Hamman, P.E. State Engineer

By: _____

Samantha Davis
Water Resources Professional III

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-04846-POD1

Well owner: Devon Energy Corp Phone No.: 405-318-4697

Mailing address: 333 West Sheridan Avenue

City: Oklahoma City State: Oklahoma Zip code: 73102

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Scarborough

2) New Mexico Well Driller License No.: WD-1188 Expiration Date: 3/21/2026

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Scott Scarborough

4) Date well plugging began: 7/24/24 Date well plugging concluded: 7/24/24

5) GPS Well Location: Latitude: 32 deg, 04 min, 38.32 sec
Longitude: -103 deg, 24 min, 39.97 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl), by the following manner: Meter tape with water detection sensor

7) Static water level measured at initiation of plugging: N/A ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 6/11/2024

9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Bentonite Chips (0'-101')	103	103	tremie pipe	no casing

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Lane Scarborough, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

8/9/2024
Date

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO (WELL NO)	WELL TAG ID NO	OSE FILE NO(S)
C-4846-POD1		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Devon Energy Corp	405-318-4697

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
333 West Sheridan Avenue	Oklahoma City	OK	73102

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	04	38.32	N
	LONGITUDE	-103	24	39.97	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1188	John Scarborough	John Scarborough Drilling Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/17/2024	7/17/2024	101	101	0

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 0

DATE STATIC MEASURED: 7/22/2024

DRILLING FLUID: ☐ AIR ☑ MUD ✓ ADDITIVES – SPECIFY: AQF-2 XG (Foaming agent)

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	101	5	Borehole				

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO	POD NO	TRN NO
LOCATION	WELL TAG ID NO	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	10		Red sand	Y ✓ N	0.00
10	20		Red sand, silty sand	Y ✓ N	0.00
20	30		Tan sand, silty sand w/ <10%gravel	Y ✓ N	0.00
30	40		Brown silty and	Y ✓ N	0.00
40	50		Brown silty sand	Y ✓ N	0.00
50	80		Brown silty sand	Y ✓ N	0.00
80	100		Red silty sand	Y ✓ N	0.00
100	101		Red silty sand	Y ✓ N	0.00
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☑ OTHER – SPECIFY: non-water bearing borehole

TOTAL ESTIMATED WELL YIELD (gpm): 0

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Scott Scarborough

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Lane Scarborough — 8/9/2024

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO	POD NO	TRN NO	
LOCATION		WELL TAG ID NO	PAGE 2 OF 2

APPENDIX C: FIELD NOTES AND PHOTOGRAPHIC LOG

Site Visit Photograph Log

Photograph #1	
Client: Devon Energy	
Site Name: Billiken 6 CTB 1	
Date Photo Taken: 7/22/2024	
Release Location: 32.077038, -103.411220 S:6 T:26S R:35E Eddy County, New Mexico	
Photo Taken by: Monica Peppin	Description: Temporary Borehole for DTGW determination

Site Visit Photograph Log

Photograph #2	
Client: Devon Energy	
Site Name: Billiken 6 CTB 1	
Date Photo Taken: 7/22/2024	
Release Location: 32.077038, -103.411220 S:10 T:23S R:31E Eddy County, New Mexico	
Photo Taken by: Monica Peppin	Description: DTGW Tape with water detector sensor measurement in casing after 72 hour wait.

Site Visit Photograph Log

Photograph #3	
Client: Devon Energy	
Site Name: Billiken 6 CTB 1	
Date Photo Taken: 7/22/2024	
Release Location: 32.077038, -103.411220 S:6 T:26S R:35E Eddy County, New Mexico	
Photo Taken: Monica Peppin	Description: Temporary Borehole location after 72 hour wait to detetrmine if water would be present facing north

Site Visit Photograph Log

Photograph #4	
Client: Devon Energy	
Site Name: Billiken 6 CTB 1	
Date Photo Taken: 7/22/2024	
Release Location: 32.077038, -103.411220 S:6 T:26S R:35E Eddy County, New Mexico	
Photo Taken by: Monica Peppin	Description: Temporary borehole facing east

Site Visit Photograph Log

Photograph #5	
Client: Devon Energy	
Site Name: Billiken 6 CTB 1	
Date Photo Taken: 8/28/2024	
Release Location: 32.077038, -103.411220 S:6 T:26S R:35E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Excavation Area facing east

Site Visit Photograph Log

Photograph #6	
Client: Devon Energy	
Site Name: Billiken 6 CTB 1	
Date Photo Taken: 8/28/2024	
Release Location: 32.077038, -103.411220 S:6 T:26S R:35E Eddy County, New Mexico	
Photo Taken by:	Description: Stock pile to be hauled off site

Site Visit Photograph Log

Photograph #7	
Client: Devon Energy	
Site Name: Billiken 6 CTB 1	
Date Photo Taken: 8/28/2024	
Release Location: 32.077038, -103.411220 S:6 T:26S R:35E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Excavation area for scrape being completed around separators

Site Visit Photograph Log

Photograph #8	
Client: Devon Energy	
Site Name: Billiken 6 CTB 1	
Date Photo Taken: January 08, 2024	
Release Location: 32.077038, -103.411220 S:6 T:26S R:35E Eddy County, New Mexico	
Photo Taken by:	Description: Excavation area

APPENDIX D: SAMPLING PROTOCOL

Souder, Miller & Associates ♦ 201 S. Halagueno ♦ Carlsbad, NM 88220
(575) 689-8801

Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Envirotech Analytical Laboratory in Farmington, New Mexico for analysis. Samples were analyzed for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel, and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site field screening and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX E: LABORATORY ANALYTICAL REPORTS

Report to:

Stephanie Hinds

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Billiken 6 CTB 1
Work Order:	E404232
Job Number:	01058-0007
Received:	4/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/29/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/29/24

Stephanie Hinds
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Billiken 6 CTB 1
Workorder: E404232
Date Received: 4/23/2024 8:15:00AM

Stephanie Hinds,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/23/2024 8:15:00AM, under the Project Name: Billiken 6 CTB 1.

The analytical test results summarized in this report with the Project Name: Billiken 6 CTB 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Alexa Michaels
Sample Custody Officer
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labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

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ljarboe@envirotech-inc.com

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Office: 505-421-LABS(5227)
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents (continued)

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	04/29/24 10:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 @0	E404232-01A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH01 @4	E404232-02A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH02 @0	E404232-03A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH02 @4	E404232-04A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH03 @0	E404232-05A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH03 @4	E404232-06A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH04 @0	E404232-07A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH04 @1	E404232-08A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH04 @4	E404232-09A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH05 @0	E404232-10A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH06 @0-0.5	E404232-11A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH06 @2	E404232-12A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH06 @4	E404232-13A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH07 @0-0.5	E404232-14A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH07 @1	E404232-15A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH07 @2	E404232-16A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.
BH07 @4	E404232-17A	Soil	04/18/24	04/23/24	Glass Jar, 2 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH01 @0

E404232-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/23/24	
Toluene	ND	0.0250	1	04/23/24	04/23/24	
o-Xylene	ND	0.0250	1	04/23/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.0 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.8 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**214**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH01 @4

E404232-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/23/24	
Toluene	ND	0.0250	1	04/23/24	04/23/24	
o-Xylene	ND	0.0250	1	04/23/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.7 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.0 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	ND	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH02 @0

E404232-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/23/24	
Toluene	ND	0.0250	1	04/23/24	04/23/24	
o-Xylene	ND	0.0250	1	04/23/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.3 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**189**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH02 @4

E404232-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/23/24	
Toluene	ND	0.0250	1	04/23/24	04/23/24	
o-Xylene	ND	0.0250	1	04/23/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.8 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.2 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	ND	20.0	1	04/23/24	04/23/24	

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Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH03 @0

E404232-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/23/24	
Toluene	ND	0.0250	1	04/23/24	04/23/24	
o-Xylene	ND	0.0250	1	04/23/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**39.8**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH03 @0

E404232-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/23/24	
Toluene	ND	0.0250	1	04/23/24	04/23/24	
o-Xylene	ND	0.0250	1	04/23/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**39.8**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH03 @4

E404232-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/23/24	
Toluene	ND	0.0250	1	04/23/24	04/23/24	
o-Xylene	ND	0.0250	1	04/23/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.3 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.1 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	ND	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH04 @0

E404232-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/23/24	
Toluene	ND	0.0250	1	04/23/24	04/23/24	
o-Xylene	ND	0.0250	1	04/23/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.1 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.1 %*	*70-130*	*04/23/24*	*04/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**5300**	40.0	2	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH04 @1

E404232-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.4 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.7 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**557**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH04 @4

E404232-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.9 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**94.4**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH05 @0

E404232-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.8 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**165**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH06 @0-0.5

E404232-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**12300**	200	10	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH06 @2

E404232-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.3 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**892**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH06 @4

E404232-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.8 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**40.6**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH07 @0-0.5

E404232-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.4 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.7 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**5670**	40.0	2	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH07 @1

E404232-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.4 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**1340**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH07 @2

E404232-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.0 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**202**	20.0	1	04/23/24	04/23/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

BH07 @4

E404232-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Benzene	ND	0.0250	1	04/23/24	04/24/24	
Ethylbenzene	ND	0.0250	1	04/23/24	04/24/24	
Toluene	ND	0.0250	1	04/23/24	04/24/24	
o-Xylene	ND	0.0250	1	04/23/24	04/24/24	
p,m-Xylene	ND	0.0500	1	04/23/24	04/24/24	
Total Xylenes	ND	0.0250	1	04/23/24	04/24/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2417027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/24	04/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.4 %*	*70-130*	*04/23/24*	*04/24/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2417016
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*04/23/24*	*04/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2417035
Chloride	**678**	20.0	1	04/23/24	04/23/24	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2417027-BLK1)									Prepared: 04/23/24 Analyzed: 04/23/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.15*		*8.00*		*89.4*	*70-130*			
LCS (2417027-BS1)									Prepared: 04/23/24 Analyzed: 04/23/24
Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	4.96	0.0250	5.00		99.1	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.24*		*8.00*		*90.5*	*70-130*			
Matrix Spike (2417027-MS1)				**Source: E404232-02**					Prepared: 04/23/24 Analyzed: 04/23/24
Benzene	5.16	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133			
Toluene	5.13	0.0250	5.00	ND	103	61-130			
o-Xylene	5.06	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.31*		*8.00*		*91.4*	*70-130*			
Matrix Spike Dup (2417027-MSD1)				**Source: E404232-02**					Prepared: 04/23/24 Analyzed: 04/23/24
Benzene	5.12	0.0250	5.00	ND	102	54-133	0.803	20	
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133	0.744	20	
Toluene	5.09	0.0250	5.00	ND	102	61-130	0.778	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	0.476	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.830	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	0.713	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.24*		*8.00*		*90.5*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2417027-BLK1)									Prepared: 04/23/24 Analyzed: 04/23/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.39*		*8.00*		*92.3*	*70-130*			
LCS (2417027-BS2)									Prepared: 04/23/24 Analyzed: 04/23/24
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.15*		*8.00*		*89.4*	*70-130*			
Matrix Spike (2417027-MS2)				**Source: E404232-02**					Prepared: 04/23/24 Analyzed: 04/23/24
Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.80*		*8.00*		*85.0*	*70-130*			
Matrix Spike Dup (2417027-MSD2)				**Source: E404232-02**					Prepared: 04/23/24 Analyzed: 04/23/24
Gasoline Range Organics (C6-C10)	43.0	20.0	50.0	ND	86.1	70-130	0.639	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.78*		*8.00*		*84.8*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2417016-BLK1)									Prepared: 04/23/24 Analyzed: 04/24/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*58.7*		*50.0*		*117*	*50-200*			
LCS (2417016-BS1)									Prepared: 04/23/24 Analyzed: 04/24/24
Diesel Range Organics (C10-C28)	289	25.0	250		116	38-132			
Surrogate: n-Nonane	*58.2*		*50.0*		*116*	*50-200*			
Matrix Spike (2417016-MS1)				**Source: E404232-02**					Prepared: 04/23/24 Analyzed: 04/24/24
Diesel Range Organics (C10-C28)	292	25.0	250	ND	117	38-132			
Surrogate: n-Nonane	*58.2*		*50.0*		*116*	*50-200*			
Matrix Spike Dup (2417016-MSD1)				**Source: E404232-02**					Prepared: 04/23/24 Analyzed: 04/24/24
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132	0.338	20	
Surrogate: n-Nonane	*57.6*		*50.0*		*115*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	4/29/2024 10:07:36AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2417035-BLK1)									Prepared: 04/23/24 Analyzed: 04/23/24
Chloride	ND	20.0							
LCS (2417035-BS1)									Prepared: 04/23/24 Analyzed: 04/23/24
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2417035-MS1)				**Source: E404232-02**					Prepared: 04/23/24 Analyzed: 04/23/24
Chloride	258	20.0	250	ND	103	80-120			
Matrix Spike Dup (2417035-MSD1)				**Source: E404232-02**					Prepared: 04/23/24 Analyzed: 04/23/24
Chloride	260	20.0	250	ND	104	80-120	0.479	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	04/29/24 10:07

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Chain of Custody

STD 5day

Project Information

Client: Souder Miller & Associates
Project: Billiken 6 CTB1
Project Manager: Stephanie Hinds
Address: 2201 S. Halagueno St
City, State, Zip Carlsbad, NM 88220
Phone:
Email:
Report due by:

Bill To
Attention: Devon Energy
Address:
City, State, Zip
Phone:
Email:
WO# 213090061

Lab Use Only
Lab WO# E404232
Job Number 01058-0007

TAT: 1D 3D
EPA Program: RCRA CWA SDWA
State: NM CO UT AZ / TX OK

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC - NM; BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	BGDOC - NM	Remarks
1230	4/18/24	Soil	1	BH01 @ 0	1	X	
1142	4/18/24	Soil	1	BH01 @ 4	2	X	
1145	4/18/24	Soil	1	BH02 @ 0	3	X	
1153	4/18/24	Soil	1	BH02 @ 4	4	X	
1213	4/18/24	Soil	1	BH03 @ 0	5	X	
1226	4/18/24	Soil	1	BH03 @ 4	6	X	
1247	4/18/24	Soil	1	BH04 @ 0	7	X	
1252	4/18/24	Soil	1	BH04 @ 1	8	X	
1255	4/18/24	Soil	1	BH04 @ 4	9	X	
1231	4/18/24	Soil	1	BH05 @ 0	10	X	

Additional Instructions: please send report to Stephanie Hinds, Sarahmay Schlea + Georgeann Goodman

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Sarahmay + Georgeann

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/19/24	1230	Michelle Gonzales	4-22-24	1051
Michelle Gonzales	4-22-24	1600		4-22-24	16:01
	4-22-24	10:15		4/23/24	0815

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Page 2 of 2

Chain of Custody

STD 5 day

Project Information

Client: Souder Miller & Associates
Project: Billiken 16 CTB1
Project Manager: Stephanie Hinds
Address: 2001 S. Halagueno St
City, State, Zip: Carlsbad, NM 88220
Phone:
Email:
Report due by:

Bill To

Attention: DevonEnergy
Address:
City, State, Zip
Phone:
Email:
WO# 213090061

Lab Use Only

Lab WO#: E404232
Job Number: 01058-0007

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ

TX | OK

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
1257	4/19/24	Soil	1	BH06 @ 0-0.5	11							X		
1302	4/19/24	Soil	1	BH06 @ 2	12							X		
1307	4/19/24	Soil	1	BH06 @ 4	13							X		
1315	4/19/24	Soil	1	BH07 @ 0-0.5	14							X		
1318	4/19/24	Soil	1	BH07 @ 1	15							X		
1321	4/19/24	Soil	1	BH07 @ 2	16							X		
1326	4/19/24	Soil	1	BH07 @ 4	17							X		

Additional Instructions: please send report to Stephanie Hinds, Sarahmay Schlea & Georgeann Goodman

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Sarahmay & Georgeann

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/19/24	1230	Michelle Gonzales	4-22-24	1051
Michelle Gonzales	4-22-24	1600		4-22-24	16:01
	4-22-24	10:15		4/23/24	0815

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Envirotech Analytical Laboratory

Printed: 4/23/2024 10:05:22AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	04/23/24 08:15	Work Order ID:	E404232
Phone:	(575) 200-5443	Date Logged In:	04/22/24 15:59	Logged In By:	Alexa Michaels
Email:	stephanie.hinds@soudermiller.com	Due Date:	04/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Stephanie Hinds

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Billiken 6 CTB 1
Work Order:	E409034
Job Number:	01058-0007
Received:	9/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/12/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/12/24

Stephanie Hinds
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Billiken 6 CTB 1
Workorder: E409034
Date Received: 9/6/2024 8:00:00AM

Stephanie Hinds,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/6/2024 8:00:00AM, under the Project Name: Billiken 6 CTB 1.

The analytical test results summarized in this report with the Project Name: Billiken 6 CTB 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Client Representative
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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	09/12/24 10:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
L1 0.5'	E409034-01A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
L2 0.5'	E409034-02A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
L3 0.5'	E409034-03A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
L4 0.5'	E409034-04A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
L5 0.5'	E409034-05A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
L6 0.5'	E409034-06A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
L7 0.5'	E409034-07A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
L8 0.5'	E409034-08A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
L9 0.5'	E409034-09A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
L10 0.5'	E409034-10A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
W1 0'-0.5'	E409034-11A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
W2 0'-0.5'	E409034-12A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
W3 0'-0.5'	E409034-13A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.
W4 0'-0.5'	E409034-14A	Soil	08/29/24	09/06/24	Glass Jar, 2 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

L1 0.5'

E409034-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*97.7 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*97.7 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/06/24	
Surrogate: n-Nonane		*83.9 %*	*50-200*	*09/06/24*	*09/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**349**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

L2 0.5'

E409034-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.5 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.5 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/06/24	
Surrogate: n-Nonane		*86.4 %*	*50-200*	*09/06/24*	*09/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**345**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

L3 0.5'

E409034-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*97.0 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*97.0 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/06/24	
Surrogate: n-Nonane		*81.3 %*	*50-200*	*09/06/24*	*09/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**336**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

L4 0.5'

E409034-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*99.3 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*99.3 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/06/24	
Surrogate: n-Nonane		*78.3 %*	*50-200*	*09/06/24*	*09/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**213**	20.0	1	09/06/24	09/06/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

L5 0.5'

E409034-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*96.5 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*96.5 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/06/24	
Surrogate: n-Nonane		*74.0 %*	*50-200*	*09/06/24*	*09/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**463**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

L6 0.5'

E409034-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*99.0 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*99.0 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/06/24	
Surrogate: n-Nonane		*86.4 %*	*50-200*	*09/06/24*	*09/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**385**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

L7 0.5'

E409034-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*124 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.8 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*98.5 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*124 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.8 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*98.5 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/06/24	
Surrogate: n-Nonane		*86.8 %*	*50-200*	*09/06/24*	*09/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**245**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

L8 0.5'

E409034-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/06/24	
Toluene	ND	0.0250	1	09/06/24	09/06/24	
o-Xylene	ND	0.0250	1	09/06/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/06/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*09/06/24*	*09/06/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.0 %*	*70-130*	*09/06/24*	*09/06/24*	
Surrogate: Toluene-d8		*99.8 %*	*70-130*	*09/06/24*	*09/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/06/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*09/06/24*	*09/06/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.0 %*	*70-130*	*09/06/24*	*09/06/24*	
Surrogate: Toluene-d8		*99.8 %*	*70-130*	*09/06/24*	*09/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/06/24	
Surrogate: n-Nonane		*89.2 %*	*50-200*	*09/06/24*	*09/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**356**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

L9 0.5'

E409034-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*123 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*97.9 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*123 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*97.9 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/07/24	
Surrogate: n-Nonane		*90.5 %*	*50-200*	*09/06/24*	*09/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**347**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

L10 0.5'

E409034-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*119 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*119 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/07/24	
Surrogate: n-Nonane		*90.9 %*	*50-200*	*09/06/24*	*09/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**283**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

W1 0'-0.5'

E409034-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*99.8 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*97.2 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*99.8 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*97.2 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/07/24	
Surrogate: n-Nonane		*90.6 %*	*50-200*	*09/06/24*	*09/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**343**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

W2 0'-0.5'

E409034-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*98.5 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*98.5 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/07/24	
Surrogate: n-Nonane		*79.9 %*	*50-200*	*09/06/24*	*09/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**322**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

W3 0'-0.5'

E409034-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.5 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*97.9 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.5 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*97.9 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/07/24	
Surrogate: n-Nonane		*88.2 %*	*50-200*	*09/06/24*	*09/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**382**	20.0	1	09/06/24	09/07/24	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

W4 0'-0.5'

E409034-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Benzene	ND	0.0250	1	09/06/24	09/07/24	
Ethylbenzene	ND	0.0250	1	09/06/24	09/07/24	
Toluene	ND	0.0250	1	09/06/24	09/07/24	
o-Xylene	ND	0.0250	1	09/06/24	09/07/24	
p,m-Xylene	ND	0.0500	1	09/06/24	09/07/24	
Total Xylenes	ND	0.0250	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*98.2 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*94.8 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2436072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/24	09/07/24	
Surrogate: Bromofluorobenzene		*98.2 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*09/06/24*	*09/07/24*	
Surrogate: Toluene-d8		*94.8 %*	*70-130*	*09/06/24*	*09/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2436068
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/24	09/07/24	
Surrogate: n-Nonane		*91.2 %*	*50-200*	*09/06/24*	*09/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2436074
Chloride	**323**	20.0	1	09/06/24	09/07/24	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2436072-BLK1)									Prepared: 09/06/24 Analyzed: 09/06/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.507*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: Toluene-d8	*0.495*		*0.500*		*98.9*	*70-130*			
LCS (2436072-BS1)									Prepared: 09/06/24 Analyzed: 09/06/24
Benzene	2.43	0.0250	2.50		97.1	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.3	70-130			
Toluene	2.28	0.0250	2.50		91.1	70-130			
o-Xylene	2.43	0.0250	2.50		97.0	70-130			
p,m-Xylene	4.87	0.0500	5.00		97.4	70-130			
Total Xylenes	7.29	0.0250	7.50		97.2	70-130			
Surrogate: Bromofluorobenzene	*0.512*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.464*		*0.500*		*92.8*	*70-130*			
Surrogate: Toluene-d8	*0.493*		*0.500*		*98.6*	*70-130*			
Matrix Spike (2436072-MS1)				**Source: E409034-08**					Prepared: 09/06/24 Analyzed: 09/06/24
Benzene	2.40	0.0250	2.50	ND	96.2	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.3	45-135			
Toluene	2.24	0.0250	2.50	ND	89.5	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.78	0.0500	5.00	ND	95.5	43-135			
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135			
Surrogate: Bromofluorobenzene	*0.518*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.472*		*0.500*		*94.4*	*70-130*			
Surrogate: Toluene-d8	*0.493*		*0.500*		*98.6*	*70-130*			
Matrix Spike Dup (2436072-MSD1)				**Source: E409034-08**					Prepared: 09/06/24 Analyzed: 09/06/24
Benzene	2.41	0.0250	2.50	ND	96.4	48-131	0.187	23	
Ethylbenzene	2.43	0.0250	2.50	ND	97.1	45-135	1.87	27	
Toluene	2.28	0.0250	2.50	ND	91.3	48-130	1.97	24	
o-Xylene	2.50	0.0250	2.50	ND	100	43-135	4.75	27	
p,m-Xylene	5.02	0.0500	5.00	ND	100	43-135	4.93	27	
Total Xylenes	7.52	0.0250	7.50	ND	100	43-135	4.87	27	
Surrogate: Bromofluorobenzene	*0.519*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.467*		*0.500*		*93.3*	*70-130*			
Surrogate: Toluene-d8	*0.493*		*0.500*		*98.5*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2436072-BLK1)									Prepared: 09/06/24 Analyzed: 09/06/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.507*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: Toluene-d8	*0.495*		*0.500*		*98.9*	*70-130*			
LCS (2436072-BS2)									Prepared: 09/06/24 Analyzed: 09/06/24
Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.3	70-130			
Surrogate: Bromofluorobenzene	*0.523*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.476*		*0.500*		*95.1*	*70-130*			
Surrogate: Toluene-d8	*0.498*		*0.500*		*99.5*	*70-130*			
Matrix Spike (2436072-MS2)				**Source: E409034-08**					Prepared: 09/06/24 Analyzed: 09/06/24
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130			
Surrogate: Bromofluorobenzene	*0.530*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.464*		*0.500*		*92.8*	*70-130*			
Surrogate: Toluene-d8	*0.499*		*0.500*		*99.7*	*70-130*			
Matrix Spike Dup (2436072-MSD2)				**Source: E409034-08**					Prepared: 09/06/24 Analyzed: 09/07/24
Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.4	70-130	2.14	20	
Surrogate: Bromofluorobenzene	*0.526*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.485*		*0.500*		*97.0*	*70-130*			
Surrogate: Toluene-d8	*0.496*		*0.500*		*99.2*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2436068-BLK1)									Prepared: 09/06/24 Analyzed: 09/06/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*43.8*		*50.0*		*87.6*	*50-200*			
LCS (2436068-BS1)									Prepared: 09/06/24 Analyzed: 09/06/24
Diesel Range Organics (C10-C28)	212	25.0	250		84.9	38-132			
Surrogate: n-Nonane	*43.4*		*50.0*		*86.8*	*50-200*			
Matrix Spike (2436068-MS1)				**Source: E409034-03**					Prepared: 09/06/24 Analyzed: 09/06/24
Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.8	38-132			
Surrogate: n-Nonane	*43.1*		*50.0*		*86.2*	*50-200*			
Matrix Spike Dup (2436068-MSD1)				**Source: E409034-03**					Prepared: 09/06/24 Analyzed: 09/06/24
Diesel Range Organics (C10-C28)	213	25.0	250	ND	85.3	38-132	1.86	20	
Surrogate: n-Nonane	*43.0*		*50.0*		*86.0*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	9/12/2024 10:20:34AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2436074-BLK1)									Prepared: 09/06/24 Analyzed: 09/06/24
Chloride	ND	20.0							
LCS (2436074-BS1)									Prepared: 09/06/24 Analyzed: 09/06/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2436074-MS1)				**Source: E409034-04**					Prepared: 09/06/24 Analyzed: 09/06/24
Chloride	485	20.0	250	213	109	80-120			
Matrix Spike Dup (2436074-MSD1)				**Source: E409034-04**					Prepared: 09/06/24 Analyzed: 09/07/24
Chloride	438	20.0	250	213	90.0	80-120	10.2	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Billiken 6 CTB 1	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Stephanie Hinds	09/12/24 10:20

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: SMA	Company: Devon Energy - Dale Woodall	Lab WO# E409034	1D 2D 3D Std	NM CO UT TX
Project Name: Billiken 6 CTB 1	Address:	Job Number 01058-0007		
Project Manager: Stephanie Hinds	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email:			
Phone:	Miscellaneous: W/O #: 21309061			
Email: stephanie.hinds@soudermiller.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals
9:35	8/29/2024	SOIL	1	L1 0.5'		1								
9:35				L2 0.5'		2								
9:36				L3 0.5'		3								
9:37				L4 0.5'		4								
9:37				L5 0.5'		5								
9:38				L6 0.5'		6								
9:42				L7 0.5'		7								
9:42				L8 0.5'		8								
9:43				L9 0.5'		9								
9:43				L10 0.5'		10								

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

Remarks

Additional Instructions:

DIRECT BILL DEVON ENERGY/CC: monica.peppin@soudermiller.com analyticals

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: MJP

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9.5.24	1115		9.5.24	1115
	9.5.24	1600	J.M.	9.5.24	1730
J.M.	9.5.24	2400		9-6-24	0800

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: SMA	Company: Devon Energy - Dale Woodall	Lab WO# E409034	1D 2D 3D Std	NM CO UT TX
Project Name: Billiken 6 CTB 1	Address:	Job Number 01058-0007		
Project Manager: Stephanie Hinds	City, State, Zip:			
Address:	Phone:			
City, State, Zip:	Email:			
Phone:	Miscellaneous: W/O #: 21309061			
Email: stephanie.hinds@soudermiller.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Remarks
9:46	8/29/2024	SOIL	1	W1 0'-0.5'		11									
9:46				W2 0'-0.5'		12									
9:47				W3 0'-0.5'		13									
9:48				W4 0'-0.5'		14									

Analysis and Method

EPA Program

SDWA	CWA	RCRA

Compliance Y or N

PWSID #

Additional Instructions:
DIRECT BILL DEVON ENERGY/CC: monica.peppin@soudermiller.com analyticals

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: MJP

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9.5.24	1115		9.5.24	1115
	9.5.24	1600	J.M.	9.5.24	1730
J.M.	9.5.24	2400		9-6-24	0800

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 9/6/2024 10:44:28AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	09/06/24 08:00	Work Order ID:	E409034
Phone:	(575) 200-5443	Date Logged In:	09/05/24 17:22	Logged In By:	Noe Soto
Email:	stephanie.hinds@soudermiller.com	Due Date:	09/12/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

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Santa Fe, NM 87505

QUESTIONS

Action 391402

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 391402
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2406642629**
Incident Name	**NAPP2406642629 BILLIKEN 6 CTB 1 @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2123637205] BILLIKEN 6 CTB 1**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BILLIKEN 6 CTB 1
Date Release Discovered	03/05/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Valve | Produced Water | Released: 17 BBL | Recovered: 13 BBL | Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Lease operator found pin hole in the ball valve on the water dump line for well upon arrival to facility. Lease operator immediately isolated the leak and shut in production for this well. 17.2 bbls released. 13 bbls recovered. leak was in containment and on the pad.

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QUESTIONS (continued)

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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 10/09/2024

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QUESTIONS (continued)

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QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	463
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	08/26/2024
On what date will (or did) the final sampling or liner inspection occur	08/28/2024
On what date will (or was) the remediation complete(d)	08/28/2024
What is the estimated surface area (in square feet) that will be reclaimed	1915
What is the estimated volume (in cubic yards) that will be reclaimed	36
What is the estimated surface area (in square feet) that will be remediated	1915
What is the estimated volume (in cubic yards) that will be remediated	36
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 10/09/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**376908**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**08/28/2024**
What was the (estimated) number of samples that were to be gathered	**10**
What was the sampling surface area in square feet	**2000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2301
What was the total volume (cubic yards) remediated	42
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2301
What was the total volume (in cubic yards) reclaimed	42
Summarize any additional remediation activities not included by answers (above)	see report

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 10/09/2024

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/7/2025