MUSKIE 23 CTB 5

3/15/2024

OCD INCIDENT nAPP2407561521

Spills In Lined Containment						
Measurements Of Standing Fluid						
Length(Ft)	75					
Width(Ft)	75					
Depth(in.)	0.75					
Total Capacity without						
tank displacements (bbls)	62.62					
No. of 500 bbl Tanks						
In Standing Fluid	6					
No. of Other Tanks In						
Standing Fluid	0					
OD Of Other Tanks In Standing Fluid(feet)	0					
Total Volume of standing fluid accounting for tank displacement.	50.02					



August 7, 2024

New Mexico Energy and Natural Resources Department New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request Muskie 23 CTB 5

Incident Numbers nAPP2408624331

**Eddy County, New Mexico** 

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company, LP (Devon), has prepared this *Closure Request* summarizing the response efforts and liner integrity inspection activities performed at the Muskie 23 CTB 5 (Site) in Unit A, Section 23, Township 26 South, Range 34 East, in Eddy County, New Mexico (Figure 1). The purpose of the liner integrity inspection was to determine if the lined secondary containment was capable of containing the produced water release on March 25, 2024, and whether impacts to soil in the areas immediately surrounding the containment liner were present or absent. Based on field observations during the liner integrity inspection, Devon is submitting this *Closure Request* and requesting closure for Incident Number nAPP2408624331.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.03314°, -103.43566°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On March 25, 2024, a 3-inch 'T' union developed a pinhole leak, which resulted in the release of 64 barrels (bbls) of produced water inside the lined secondary containment. A vacuum truck successfully recovered all 64 bbls of produced water. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on March 26, 2024. The release was assigned Incident Number nAPP2408624331. A 48-hour advance notice of liner inspection was provided via web portal to the NMOCD on June 25, 2024. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was determined to be insufficient and had the potential for contaminants to migrate outside of containment into soil and the subsurface.

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-4856 POD1 with a depth to water measurement greater than 105 feet

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parky Hwy| Carlsbad, NM 88220 | ensolum.com



below ground surface (bgs). The well was a soil boring drilled to assess depth to groundwater beneath the Site and was advanced approximately 789 feet southwest of the spill area and measured on July 29, 2024. All wells used for depth to groundwater determinations are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 0.9 miles northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

TPH: 2,500 mg/kg

Chloride: 20,000 mg/kg

#### **DELINEATION SOIL SAMPLING ACTIVITIES AND LINER INTEGRITY INSPECTIONS**

On June 27, 2024, Ensolum personnel competent in conducting liner inspections, arrived onsite to visually inspect the integrity of the separator containment liner associated with Incident Number nAPP2408624331. Prior to conducting the inspection, NMOCD was provided with a 48-hour liner inspection notification via email on June 25, 2024 (Appendix B). The liner was found insufficient during the June 2024 inspection. A single hole was found in the liner in between the separators. Four lateral delineation sample points (SS08 through SS11) were collected on all four sides of the lined containment at ground surface to verify the release remained inside the lined containment. Photographs taken during the liner inspection are included in Appendix C.

On July 3, 2024, Ensolum personnel returned to the Site to collect a vertical sample beneath the containment liner. One delineation sample point (BH07) was advanced in the general vicinity of the damaged liner to a terminal depth of 1-foot bgs. Delineation soil samples were field screened for chloride and TPH utilizing Mohr's titration method and a PetroFLAG® Soil Analyzer System, respectively. The delineation sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations from the borehole was logged on lithologic/soil sampling log, which is included in Appendix D.

One delineation soil sample (BH07@0') was collected at ground surface just beneath the containment liner and one delineation soil sample (BH07@1') was collected at 1-foot bgs. Both samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.



#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS08 through SS11) collected at ground surface and associated with Incident Number nAPP2408624331 indicated all COC concentrations were in compliance with strictest Closure Criteria per NMOCD Table I and with the Site Closure Criteria. Laboratory analytical results for vertical delineation soil samples collected from borehole (BH07) were in compliance with the Site Closure Criteria and vertical delineation soil sample (BH07@1') was in compliance with the strictest Closure Criteria per NMOCD Table I at 1-foot bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix E.

#### **CLOSURE REQUEST**

Following a liner integrity inspection at the Site, it was determined the release was contained laterally and vertically by the lined secondary containment. Lateral delineation soil samples (SS08 through SS11) collected at ground surface verified the release did not breach the containment walls during the release. Vertical delineation soil samples (BH07) from ground surface to 1-foot bgs indicated contamination beneath the lined containment does not exceed the Closure Criteria for the Site. Waste-containing soil just beneath the liner will remain in place until major Site reconstruction or final reclamation of the pad, which ever one comes first. Reclamation will be completed based on approved practices. Remedial actions completed at the Site following the June 2024 produced water release appear to have been protective of human health, the environment, and groundwater. Based on initial response efforts, and a reported depth to groundwater of greater than 105 feet bgs, Devon respectfully requests closure for Incident Number nAPP2408624331.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely,

**Ensolum, LLC** 

Ashley Giovengo Senior Scientist Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

#### Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B NMOCD Correspondence

Appendix C Photographic Log

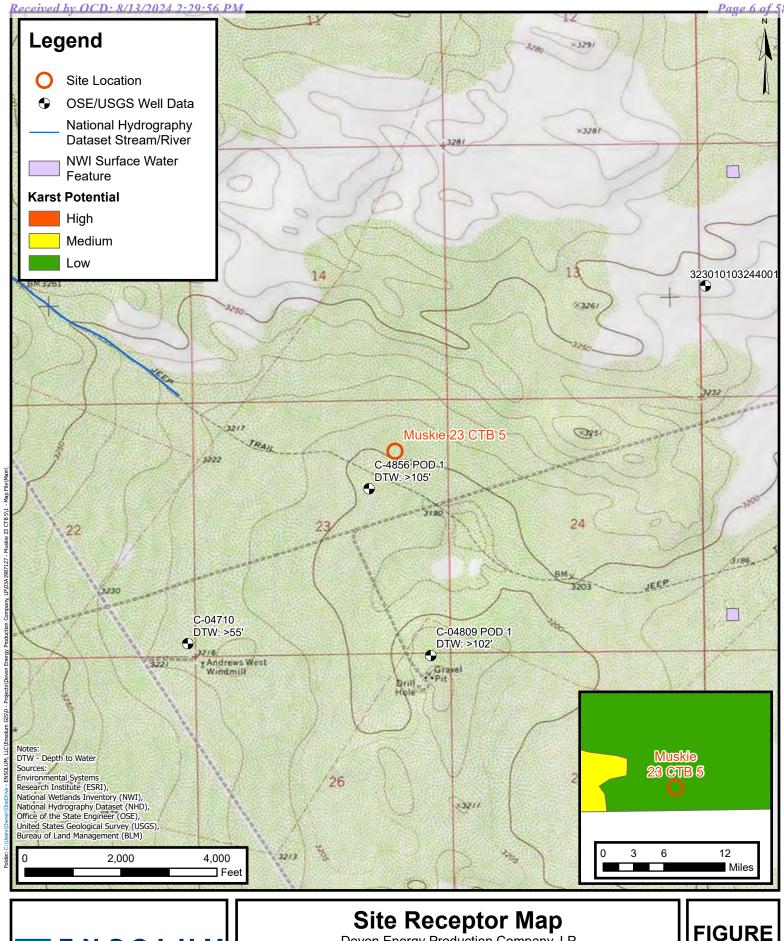
Appendix D Lithologic Soil Sampling Logs

Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F NMOCD Notifications



**FIGURES** 

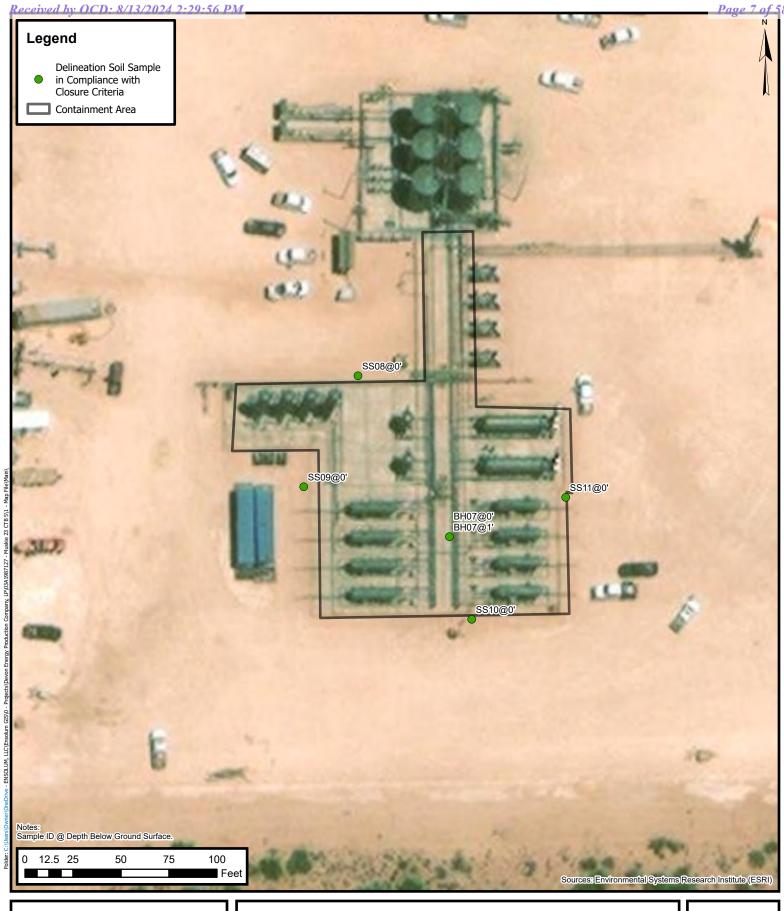




Devon Energy Production Company, LP
Muskie 23 CTB 5
Incident Number: nAPP2408624331
Unit A, Section 23, Township 26S, Range 34E
Eddy County, New Mexico

FIGURE 1

Released to Imaging: 8/29/2024 9:21:20 AM





# **Delineation Soil Sample Locations**

Devon Energy Production Company, LP

Muskie 23 CTB 5
Incident Number: nAPP2408624331
Unit A, Section 23, Township 26S, Range 34E
Eddy County, New Mexico

FIGURE 2



**TABLES** 



#### TABLE 1

#### **SOIL SAMPLE ANALYTICAL RESULTS**

Muskie 23 CTB 5

**Devon Energy Production Company, LP** 

	Eddy County, New Mexico									
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria (	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS08	6/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	172
SS09	6/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	38.4
SS10	6/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	292
SS11	6/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	281
BH07	7/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	1,110
BH07	7/3/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<20.0	21.5

#### Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

<sup>&</sup>quot;<": Laboratory Analytical result is less than reporting limit

<sup>\*</sup> Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.



**APPENDIX A** 

Referenced Well Records



NC	OSE POD NO (W POD 1	ELL NO	)	WI N/	ELL TAG ID NO A	).		OSE FILE NO C-4856 PO			
CATIC	WELL OWNER NAME(S)  Devon Energy Production Company							PHONE (OPTIONAL) 575-748-1838			
I. GENERAL AND WELL LOCATION	WELL OWNER M 205 E. Bender							CITY Hobbs		STATE NM 8824	ZIP O
LANDV	WELL LOCATION	14	DE	EGREES 32	MINUTES 01	SECONDS 51.64	N	* ACCURACY	Y REQUIRED: ONE TEN	TH OF A SECOND	
ERA	(FROM GPS)		NGITUDE	103	26	14.78	w	* DATUM RE	QUIRED: WGS 84		
1. GEN	DESCRIPTION F	ELATIN	NG WELL LOCATION TO	STREET ADDRESS	AND COMMO	N LANDMARK	S – PLS	S (SECTION, TO	)WNSHJIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO WD1188	2	NAME OF LICENSED		Scarboroug	rh			NAME OF WELL DRI John Sca	ILLING COMPANY rborough Drilling	Inc.
	DRILLING STAR		DRILLING ENDED	DEPTH OF COMPL			RE HO	LE DEPTH (FT)	DEPTH WATER FIRS		(FT)
	07/25/202	24	07/25/2024		105			105		N/A	
z	COMPLETED W	ELL IS:	ARTESIAN	✓ DRY HOLE	SHALL	OW (UNCONFI	NED)		STATIC WATER LEV	N/A	WELL (FT)
TIO	DRILLING FLUI	<b>)</b> :	✓ AIR	☐ MUD	ADDITI	VES – SPECIFY	's				
RM/	DRILLING METI	IOD:	✓ ROTARY	☐ HAMMER	CABLE	TOOL [	ОТНЕ	R – SPECIFY:			
CASING INFORMATION	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		g, and	CASING CONNECTION TYPE (add coupling diameter)		CASING INSIDE DIAM. (inches)	CASING WAL THICKNESS (inches)	
CAS	0	105	5		il Boring	1) (a	aa coup	-	-		
2. DRILLING &											
ILLI											
2. DR											
	DEPTH (fee	t bgl)	BORE HOLE		ANNULAR S				AMOUNT		HOD OF
IML	FROM	то	DIAM. (inches)	GRAVEI	L PACK SIZI		INTE	ERVAL	(cubic feet)	PLAC	CEMENT
TER						N/A					
R M/			1								
ANNULAR MATERIAL											
ANN											
r.											
FOF	OSE INTERNA	L USE							20 WELL RECORD	& LOG (Version (	04/30/19)
FILI	E NO.				POD N	O.	Т	TRN	70.00		CE LOE 2
LOC	CATION							WELL TAG	ID NO.	PA	GE 1 OF 2

	DEPTH (f	cet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm
	0	10	10	Silty Sand, Medium Brown to tan, Medium to fine grained	Y /N	
	10	20	10	Silty Sand, Medium brown to red, Medium to fine grained	Y /N	
	20	30	10	Sand with Gravel, light brown to white, fine to medium with some caliche grave	Y ✓N	
	30	35	Y ✓N			
	35	40	5	Sand with clay, light brown to white, fine to medium with some red clay	Y ✓N	
	40	48	4	Sand with Gravel, light brown to white, fine to medium with some caliche grave	Y /N	
	48	55	8	Sandstone, Light brown to white, fine to coarse grained	Y ✓N	
	55	58	3	Sand with clay, light brown to yellow, very fine to medium with some grey clay	Y ✓N	
	58	60	2	Sand with clay, light brown to grey, very fine to medium with some grey clay	Y /N	
	60	68	8	Clay with sand, medium brown to red, with some medium brown sand	Y /N	
	68	70	2	Sand with clay, light to medium brown, very fine to medium with some grey cla	Y /N	
**************************************	70	74	4	Sand with clay medium brown to red, with some red clay	Y √N	
	74	80	6	Sand with clay, light brown to grey, very fine to medium with some grey clay	Y /N	
1	80	90	10	Sand with clay, light brown to yellow, very fine to medium with some grey clay	Y √N	
	90	100	10	Silty Sand, light to medium brown, medium to fine grained	y √n	
	100	105	5	Sand with Gravel, light brown to white, fine to medium with some caliche grave	Y /N	
	105	105	0	Sand with Gravel, light brown to white, fine to medium with some caliche grave	Y /N	
Ī					Y N	
1					Y N	
1					Y N	
					Y N	
1	METHOD I	USED TO I	ESTIMATE YIEL	D OF WATER-BEARING STRATA: TOT	AL ESTIMATED	
	PUM	IP 🔲	AIR LIFT	BAILER OTHER - SPECIFY: WE	LL YIELD (gpm):	0.00
	WELL TE	ST TES	T RESULTS - AT	TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDITIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER TH	ING DISCHARGE N	METHOD,
S. TEST; RIG SUPERVISION	MISCELLA	ANEOUS II	NFORMATION:	Temporary well material removed and soil boring backfilled using drill cubelow ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface (bgs), the hydrated bentonite chips 10 ft bgs to ground surface (bgs), the hydrated bentonite chips 10 ft bgs to ground surface (bgs), the hydrated bgs to ground surface (bgs)	ttings from total de and surface.	epth to 10 ft
5. IEST	PRINT NA	ME(S) OF	DRILL RIG SUP	ERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRU	CTION OTHER TH	IAN LICENSE
6. SIGNATURE	DECCED.	OF THE AT	OUR DECCRIPT	THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGO ED WELL I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BE ED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETIC	EN INSTALLED A	IHI IAHI UN
VNS	Scott		Digitally signed by Sco Scarborough			
ž	Scarbor		Date 2024.07 30 10.43 -06'00'	LER / PRINT SIGNEE NAME	DATE	
6						

POD NO.

TRN NO

WELL TAG ID NO

PAGE 2 OF 2

Released to	Imaging:	8/29/2024	9:21:20 AM

FILE NO.

LOCATION



**APPENDIX B** 

Photographic Log



#### **Photographic Log**

Devon Energy Production Company, LP Muskie 23 CTB 5 nAPP2408624331





Photograph 1 Date: 6/27/2024 Photograph 2 Date: 6/27/2024

Description: Site signage

View: Southeast

Description: Liner inspection

View: Northeast





Photograph 3 Date: 7/3/2024 Photograph 4 Date: 7/3/2024

Description: Delineation

View: South

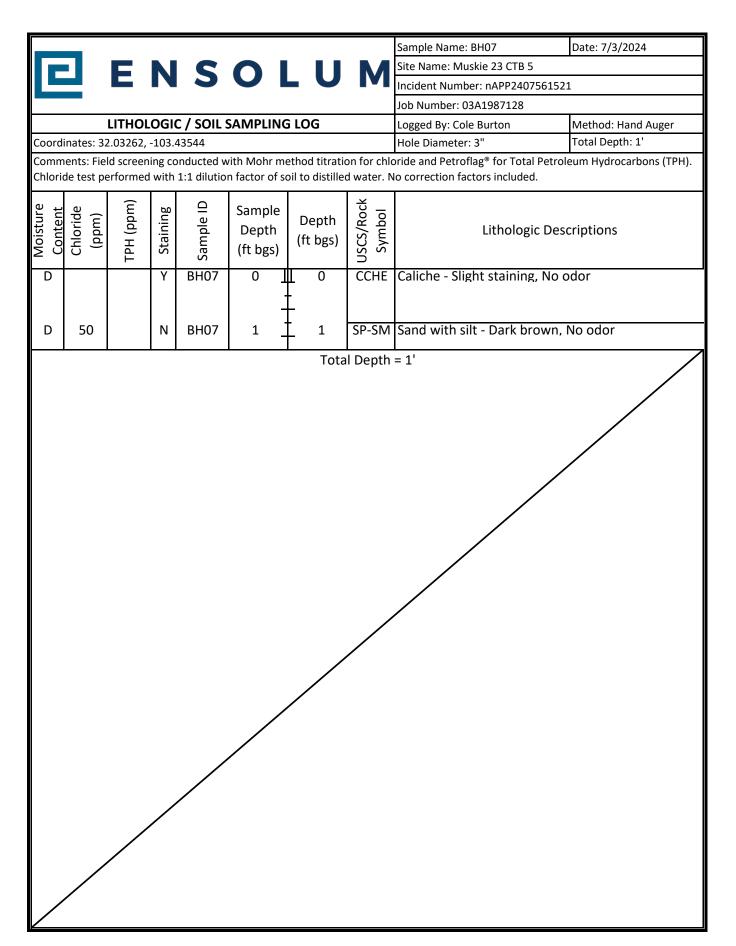
Description: Liner patch

View: Northeast



APPENDIX C

Lithologic Soil Sampling Logs





APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

Devon Energy - Carlsbad

Project Name: Muskie 23 CTB 5

Work Order: E406265

Job Number: 01058-0007

Received: 7/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/3/24

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: 7/3/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Muskie 23 CTB 5

Workorder: E406265

Date Received: 7/1/2024 10:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/1/2024 10:30:00AM, under the Project Name: Muskie 23 CTB 5.

The analytical test results summarized in this report with the Project Name: Muskie 23 CTB 5 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

ſ	Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	Reported:
1	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
	Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/03/24 10:15

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS08-0'	E406265-01A Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS09-0'	E406265-02A Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS10-0'	E406265-03A Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS11-0'	F406265-04A Soil	06/27/24	07/01/24	Glass Jar. 2 oz.



Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

#### SS08-0'

	Danastina				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: IY		Batch: 2427015
ND	0.0250	1	07/01/24	07/02/24	
ND	0.0250	1	07/01/24	07/02/24	
ND	0.0250	1	07/01/24	07/02/24	
ND	0.0250	1	07/01/24	07/02/24	
ND	0.0500	1	07/01/24	07/02/24	
ND	0.0250	1	07/01/24	07/02/24	
	93.3 %	70-130	07/01/24	07/02/24	
mg/kg	mg/kg	Analys	t: IY		Batch: 2427015
ND	20.0	1	07/01/24	07/02/24	
	94.2 %	70-130	07/01/24	07/02/24	
mg/kg	mg/kg	A malvas	. VM		Batch: 2427016
mg/kg	mg/kg	Anarys	l: KIVI		Batch: 242/010
ND	25.0	1	07/01/24	07/02/24	Batch: 242/010
		Anarysi 1 1		07/02/24 07/02/24	Batch: 242/010
ND	25.0	1 1 50-200	07/01/24	*****	Batch: 242/010
ND	25.0 50.0	1 1	07/01/24 07/01/24 07/01/24	07/02/24	Batch: 2427010
	mg/kg ND	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           93.3 %           mg/kg         mg/kg           ND         20.0           94.2 %	Result         Limit         Dilution           mg/kg         mg/kg         Analys           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           93.3 %         70-130           mg/kg         mg/kg         Analys           ND         20.0         1           94.2 %         70-130	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         07/01/24           ND         0.0250         1         07/01/24           ND         0.0250         1         07/01/24           ND         0.0250         1         07/01/24           ND         0.0500         1         07/01/24           ND         0.0250         1         07/01/24           MD         0.0250         1         07/01/24           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         07/01/24           94.2 %         70-130         07/01/24	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         07/01/24         07/02/24           ND         0.0500         1         07/01/24         07/02/24           ND         0.0250         1         07/01/24         07/02/24           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         07/01/24         07/02/24           ND         20.0         1         07/01/24         07/02/24           MD         20.0         1         07/01/24         07/02/24

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

#### SS09-0'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2427015
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID		92.5 %	70-130	07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2427015
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2427016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane		87.7 %	50-200	07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2427010
Chloride	38.4	20.0	1	07/01/24	07/01/24	



Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

#### SS10-0'

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2427015
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID		93.5 %	70-130	07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2427015
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2427016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane		83.6 %	50-200	07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: JM		Batch: 2427010
Chloride	292	20.0	1	07/01/24	07/01/24	· · · · · · · · · · · · · · · · · · ·



Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

#### SS11-0'

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2427015
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130	07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2427015
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %	70-130	07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2427016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane		89.3 %	50-200	07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: JM		Batch: 2427010
	281	20.0		07/01/24	07/01/24	



### **QC Summary Data**

Devon Energy - Carlsbad Muskie 23 CTB 5 Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 7/3/2024 10:15:58AM **Volatile Organics by EPA 8021B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2427015-BLK1) Prepared: 07/01/24 Analyzed: 07/02/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.47 8.00 93.4 70-130 LCS (2427015-BS1) Prepared: 07/01/24 Analyzed: 07/02/24 5.10 5.00 102 70-130 Benzene 0.0250 Ethylbenzene 5.06 0.0250 5.00 101 70-130 5.14 0.0250 5.00 103 70-130 Toluene o-Xylene 5.07 0.0250 5.00 101 70-130 10.3 10.0 103 70-130 0.0500 p.m-Xvlene 102 70-130 15.3 15.0 Total Xylenes 0.0250 8.00 94.0 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.52 Matrix Spike (2427015-MS1) Source: E406265-02 Prepared: 07/01/24 Analyzed: 07/02/24 4.59 0.0250 5.00 ND 54-133 Benzene ND 92.0 61-133 Ethylbenzene 4.60 0.0250 5.00 Toluene 4.65 0.0250 5.00 ND 92.9 61-130 4.60 ND 92.0 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.34 0.0500 10.0 ND 93.4 63-131 13.9 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.49 8.00 Matrix Spike Dup (2427015-MSD1) Source: E406265-02 Prepared: 07/01/24 Analyzed: 07/02/24 4.59 0.0250 5.00 ND 91.7 54-133 0.147 20 61-133 0.0228 4.60 0.0250 5.00 ND 92.0 20 Ethylbenzene Toluene 4 65 0.0250 5.00 ND 929 61-130 0.0226 20 4.59 5.00 ND 91.9 63-131 0.110 20 o-Xylene 0.0250 0.0916 9.33 10.0 ND 93.3 63-131 20 p,m-Xylene 0.0500



13.9

7.50

0.0250

15.0

8.00

ND

92.8

93.7

63-131

70-130

0.0976

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

## **QC Summary Data**

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	Muskie 23 CTB 5 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			7/	3/2024 10:15:58AN
	Non	halogenated	Organics l	oy EPA 80	15D - Gl	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2427015-BLK1)							Prepared: 0°	7/01/24 Ana	lyzed: 07/02/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			
LCS (2427015-BS2)							Prepared: 0	7/01/24 Ana	lyzed: 07/02/24
Gasoline Range Organics (C6-C10)	40.9	20.0	50.0		81.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			
Matrix Spike (2427015-MS2)				Source:	E406265-	02	Prepared: 0	7/01/24 Ana	lyzed: 07/02/24
Gasoline Range Organics (C6-C10)	40.1	20.0	50.0	ND	80.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			
Matrix Spike Dup (2427015-MSD2)				Source:	E406265-	02	Prepared: 0	7/01/24 Ana	lyzed: 07/02/24
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130	5.75	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.3	70-130			



# **QC Summary Data**

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	_
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/3/2024 10:15:58AM

Artesia NM, 88210		Project Manager	r: As	hley Gioveng	go				7/3/2024 10:15:58AN
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2427016-BLK1)							Prepared: 0	7/01/24 A	nalyzed: 07/01/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	44.2		50.0		88.4	50-200			
LCS (2427016-BS1)							Prepared: 0	7/01/24 A	nalyzed: 07/01/24
Diesel Range Organics (C10-C28)	243	25.0	250		97.2	38-132			
urrogate: n-Nonane	44.2		50.0		88.3	50-200			
Matrix Spike (2427016-MS1)				Source:	E406264-	06	Prepared: 0	7/01/24 A	nalyzed: 07/01/24
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
urrogate: n-Nonane	45.1		50.0		90.3	50-200			
Matrix Spike Dup (2427016-MSD1)				Source:	E406264-	06	Prepared: 0	7/01/24 A	nalyzed: 07/01/24
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132	1.17	20	
'urrogate: n-Nonane	45.4		50.0		90.7	50-200			



## **QC Summary Data**

Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Iuskie 23 CTB 1058-0007	5				Reported:
Artesia NM, 88210		Project Number: Project Manager:		shley Gioveng	go				7/3/2024 10:15:58AM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2427010-BLK1)							Prepared: 0	7/01/24 A	nalyzed: 07/01/24
Chloride	ND	20.0							
LCS (2427010-BS1)							Prepared: 0	7/01/24 A	nalyzed: 07/01/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2427010-MS1)				Source:	E406262-0	)2	Prepared: 0	7/01/24 A	nalyzed: 07/01/24
Chloride	333	20.0	250	81.6	101	80-120			
Matrix Spike Dup (2427010-MSD1)				Source:	E406262-0	)2	Prepared: 0	7/01/24 A	nalyzed: 07/01/24
Chloride	335	20.0	250	81.6	102	80-120	0.688	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**

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/03/24 10:15

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.



Released to Imaging: 8/29/2024 9:21:20 AM

Page	 of_	1

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	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.																						



envirotec

envirotech Inc.

#### **Envirotech Analytical Laboratory**

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.

Phone: (505) 382-1211 Date Logged In: 06/28/24 16:03 Logged In By: Raina Schwanz		<u> </u>				<u> </u>		
Chain of Custody (COC)  Libour the sample ID match the COC?  Libour the sample ID match the COC?  Libour the sample ID match the COC?  Libour the sample of samples per sampling site location makeh the COC  Vic.  Were samples dropped of the yolient or currier?  Vic.  Libour the sample of samples per sampling site location makeh the COC  Vic.  Were for the sample of samples per sampling site location makeh the COC  Note: a sample storped of the yolient or currier?  Vic.  Libour the sample storped of the yolient or currier?  Vic.  Note: The sample storped of the yolient or currier?  Note: Income had store, we not totaled in this discussion.  Sample ID match and Time CTAY  Sample Condition  Libyes, was coeffer received in good condition?  Vic.	Client:	Devon Energy - Carlsbad	Date Received:	07/01/24	10:30		Work Order ID:	E406265
Chain of Custory (COC)  1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Was the COC complete, i.e., signatures, datestrimes, sequested analyses? 4. Was the COC complete, i.e., signatures, datestrimes, sequested analyses? 5. Were all samples received within holds of the conducted in the field, i.e., iz, strained all outs, set out thought of the site of the field, i.e., iz, strained all outs, set out thought of the site of the field, i.e., iz, strained strained strained. 5. Both the COC indivate standard TAIT or Expedited TAIT? 5. Both the COC indivate standard TAIT, or Expedited TAIT? 5. Was a sample cooler received in good condition? 6. Was the sample); received intext, i.e., not broken? 7. Was a sample received an intext, i.e., not broken? 7. Was the sample for received may be seen? 8. Was the sample for received may be seen? 8. Was the sample for received may be seen and intext. 8. Was the sample for received may be seen and intext. 8. Was the sample for received may be seen and intext. 8. Was the sample for received may be seen and intext. 8. Was the sample for received may be seen and intext. 8. Was the sample for received may be seen and intext. 8. Was a minute of sample seen and intext. 8. Are now VOC samples collected in VOA Visib? 8. Are now VOC samples collected in VOA Visib? 8. Are now VOC samples collected in VOA Visib? 9. Was a interpolate (Ell) included for VOC analyses? 9. Was a minute for significant of the sample were preserved? 9. Was a fine COC or field holds indicate the samples were preserved? 9. Was a fine COC or field holds indicate the samples were preserved? 9. Was a submontant absortory specified by the client and if so who? 9. Was a submontant laboratory specified by the client and if so who? 9. Was a submontant laboratory specified by the client and if so who? 9. Was a submontant laboratory specified by the client and if so who? 9. Was a submontant laboratory specified by the client and if so who? 9. Was a submontant labor	Phone:	(505) 382-1211	Date Logged In:	06/28/24	16:03		Logged In By:	Raina Schwanz
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Sample Cooler  Was a sample cooler received?  Was a sample cooler received in good condition?  Yes  Was the sample(s) received intact, i.e., not broken?  Was the sample(s) received intact, i.e., not broken?  Was the sample received on its cell yes, the recorded temp is 4°C, i.e., 6°=2°C  Note: Thranal peservation is not required, if samples are received wil 15 minutes of sampling  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  18. Are non-VOC samples collected in the correct containers?  Yes  19. Is the appropriate volume/weight or number of sample containers collected?  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye				••				
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Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling    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 Preservation    21. Does the COC or field labels indicate the samples were preserved?   No    22. Are sample(s) correctly preserved?   NA    Multiphase Sample Matrix    26. Does the sample have more than one phase, i.e., multiphase?   No    Multiphase Sample Matrix    27. If yes, does the COC of peicify which phase(s) is to be analyzed?   NA    Subcontract Laboratory    28. Are sample sample sample sample sample sample sample sample and if so who?   NA    Subcontract Laboratory    29. Was a subcontract Laboratory specified by the client and if so who?   NA    Client Instruction	11. If yes	s, were custody/security seals intact?		NA				
Sample Container  14. Are aqueous VOC samples present?  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?  Field Label  20. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  Yes  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  NA  22. Are sample/s correctly preserved?  NA  24. Is lab filteration required and/or requested for dissolved metals?  Multiphase Sample Martix  26. Does the sample have more than one phase, i.e., multiphase?  No  Multiphase Sample have more than one phase, i.e., multiphase?  No  77. 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		Note: Thermal preservation is not required, if samples arminutes of sampling	e received w/i 15					
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22. Are sample(s) correctly preserved?  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			racarriad?	No				
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	29. Was	a subcontract laboratory specified by the client and is	f so who?	NA	Subcontract Lab	: NA		
	Client I	nstruction						
		<del></del>						
	L							

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: Muskie 23 CTB 5

Work Order: E407042

Job Number: 01058-0007

Received: 7/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/11/24

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: 7/11/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Muskie 23 CTB 5

Workorder: E407042

Date Received: 7/9/2024 11:20:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/9/2024 11:20:00AM, under the Project Name: Muskie 23 CTB 5.

The analytical test results summarized in this report with the Project Name: Muskie 23 CTB 5 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

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## Sample Summary

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	Denouted
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/11/24 15:42

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BH06-0'	E407042-01A Soil	07/03/24	07/09/24	Glass Jar, 2 oz.
BH06-4'	E407042-02A Soil	07/03/24	07/09/24	Glass Jar, 2 oz.
BH07-0'	E407042-03A Soil	07/03/24	07/09/24	Glass Jar, 2 oz.
BH07-1'	E407042-04A Soil	07/03/24	07/09/24	Glass Jar, 2 oz.



Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM

## BH06-0' E407042-01

		E-10/042-01					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2428035
Benzene	ND	0.0250	1	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		96.9 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		92.2 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		96.9 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		92.2 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	07/09/24	07/10/24	
Surrogate: n-Nonane		102 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2428037
THIONS BY EITHCOOK / SCOTT							



Devon Energy - CarlsbadProject Name:Muskie 23 CTB 56488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo7/11/2024 3:42:31PM

## BH06-4' E407042-02

porting Limit Dilution Prepared Analyzed Notes
The state of the s
ng/kg Analyst: RKS Batch: 2428035
<i>5 5</i>
.0250 1 07/09/24 07/10/24
0250 1 07/09/24 07/10/24
0500 1 07/09/24 07/10/24
0250 1 07/09/24 07/10/24
70-130 07/09/24 07/10/24
70-130 07/09/24 07/10/24
70-130 07/09/24 07/10/24
ng/kg Analyst: RKS Batch: 2428035
20.0 1 07/09/24 07/10/24
70-130 07/09/24 07/10/24
70-130 07/09/24 07/10/24
70-130 07/09/24 07/10/24
ng/kg Analyst: KM Batch: 2428028
25.0 1 07/09/24 07/10/24
50.0 1 07/09/24 07/10/24
50-200 07/09/24 07/10/24
ng/kg Analyst: DT Batch: 242803
20.0 1 07/09/24 07/09/24



Devon Energy - CarlsbadProject Name:Muskie 23 CTB 56488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo7/11/2024 3:42:31PM

## BH07-0' E407042-03

		E107012 00					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2428035
Benzene	ND	0.0250		1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250		1	07/09/24	07/10/24	
Toluene	ND	0.0250		1	07/09/24	07/10/24	
o-Xylene	ND	0.0250		1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500		1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250		1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		95.6 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		92.8 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		95.6 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		92.8 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0		1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0		1	07/09/24	07/10/24	
Surrogate: n-Nonane		90.9 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2428037
Chloride	1110	20.0		1	07/09/24	07/10/24	



Devon Energy - CarlsbadProject Name:Muskie 23 CTB 56488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo7/11/2024 3:42:31PM

## BH07-1'

		E407042-04					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2428035
Benzene	ND	0.0250		1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250		1	07/09/24	07/10/24	
Toluene	ND	0.0250		1	07/09/24	07/10/24	
o-Xylene	ND	0.0250		1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500		1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250		1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		97.0 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		90.2 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		97.0 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		90.2 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0		1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0		1	07/09/24	07/10/24	
Surrogate: n-Nonane		102 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2428037
Chloride	21.5	20.0		1	07/09/24	07/10/24	



# **QC Summary Data**

	<b>Q</b> 0 10 0000	J = 11111	
Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM
	Analyst: RKS		

	V	olatile Organ	ic Compo	unds by EI	Analyst: RKS				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428035-BLK1)							Prepared: 0	7/09/24 Analy	yzed: 07/09/24
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	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.470		0.500		93.9	70-130			
LCS (2428035-BS1)							Prepared: 0	7/09/24 Analy	yzed: 07/09/24
Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.50	0.0250	2.50		100	70-130			
Toluene	2.36	0.0250	2.50		94.6	70-130			
o-Xylene	2.45	0.0250	2.50		97.9	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.3	70-130			
Total Xylenes	7.36	0.0250	7.50		98.2	70-130			
Surrogate: Bromofluorobenzene	0.493	******	0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.480		0.500		95.9	70-130			
Matrix Spike (2428035-MS1)				Source:	E407038-	04	Prepared: 0	7/09/24 Analy	yzed: 07/09/24
Benzene	2.75	0.0250	2.50	ND	110	48-131			
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135			
Toluene	2.42	0.0250	2.50	ND	96.7	48-130			
o-Xylene	2.51	0.0250	2.50	ND	100	43-135			
p,m-Xylene	5.03	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.53	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.475		0.500		95.0	70-130			
Matrix Spike Dup (2428035-MSD1)				Source:	E407038-	04	Prepared: 0	7/09/24 Analy	yzed: 07/09/24
Benzene	2.80	0.0250	2.50	ND	112	48-131	1.50	23	
Ethylbenzene	2.65	0.0250	2.50	ND	106	45-135	3.91	27	
Toluene	2.49	0.0250	2.50	ND	99.7	48-130	3.06	24	
o-Xylene	2.65	0.0250	2.50	ND	106	43-135	5.62	27	
p,m-Xylene	5.32	0.0500	5.00	ND	106	43-135	5.59	27	
Total Xylenes	7.97	0.0250	7.50	ND	106	43-135	5.60	27	
Surrogate: Bromofluorobenzene	0.504	0.0200	0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
	0.476		0.500		95.2	70-130			

Gasoline Range Organics (C6-C10)

 ${\it Surrogate: Bromofluor obenzene}$ 

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

# **QC Summary Data**

Devon Energy - CarlsbadProject Name:Muskie 23 CTB 5Reported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo7/11/20243:42:31PM

Artesia NM, 88210		Project Manager	: As	hley Gioveng	50			7/1	1/2024 3:42:31PM
	Non	halogenated (		Analyst: RKS					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428035-BLK1)							Prepared: 0	7/09/24 Analy	yzed: 07/09/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.470		0.500		93.9	70-130			
LCS (2428035-BS2)							Prepared: 0	7/09/24 Analy	yzed: 07/09/24
Gasoline Range Organics (C6-C10)	52.9	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			
Matrix Spike (2428035-MS2)				Source:	E407038-	04	Prepared: 0	7/09/24 Analy	yzed: 07/09/24
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.5	70-130			
Matrix Spike Dup (2428035-MSD2)				Source:	E407038-	04	Prepared: 0	7/09/24 Analy	yzed: 07/09/24

50.0

0.500

0.500

0.500

20.0

ND

103

101

97.0

96.5

51.5

0.503

0.485

0.483

70-130

70-130

70-130

70-130

3.45



# **QC Summary Data**

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/11/2024 3:42:31PM

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go			7	7/11/2024 3:42:31PN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428028-BLK1)							Prepared: 0	7/09/24 An	alyzed: 07/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			
LCS (2428028-BS1)							Prepared: 0	7/09/24 An	alyzed: 07/10/24
Diesel Range Organics (C10-C28)	296	25.0	250		118	38-132			
Surrogate: n-Nonane	63.5		50.0		127	50-200			
Matrix Spike (2428028-MS1)				Source:	E407038-	04	Prepared: 0	7/09/24 An	alyzed: 07/10/24
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			
Matrix Spike Dup (2428028-MSD1)				Source:	E407038-	04	Prepared: 0	7/09/24 An	alyzed: 07/10/24
Diesel Range Organics (C10-C28)	296	25.0	250	ND	119	38-132	0.669	20	
Surrogate: n-Nonane	58.3		50.0		117	50-200			

# **QC Summary Data**

Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		uskie 23 CTB	5				Reported:
Artesia NM, 88210		Project Manager:		shley Gioveng	go				7/11/2024 3:42:31PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	1				Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2428037-BLK1)							Prepared: 0	7/09/24 A	analyzed: 07/09/24
Chloride LCS (2428037-BS1)	ND	20.0					Prepared: 0	7/09/24 A	nalyzed: 07/09/24
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2428037-MS1)				Source:	E407038-0	)4	Prepared: 0	7/09/24 A	analyzed: 07/09/24
Chloride	373	20.0	250	120	101	80-120			
Matrix Spike Dup (2428037-MSD1)				Source:	E407038-0	)4	Prepared: 0	7/09/24 A	analyzed: 07/09/24
Chloride	377	20.0	250	120	103	80-120	0.933	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**

Devon Energy - Carlsbad	Project Name:	Muskie 23 CTB 5	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/11/24 15:42

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.



D	1.	ı
Page	OT	5

Client Information				Invoice Information		Lab Use Only						TAT				State						
Client: D	evon					Company: Devon								Number			1D 2D 3D		3D Sto	MM E	CO UT	TX
Project: Muskie 23 CTB 5			_   A	ddress: 205 E Bender Road	#150	F	E 407042 01					1058-0007				x		×	0 - 1			
	lanager: Asl		engo			City, State, Zip: Hobbs NM, 88	8240															
Address: 3122 National Parks Hwy		PI	hone: (575)748-1838							Ana	lysis	and	Met	hod			E	PA Progr	am			
	e, Zip: Carls					mail: dale.woodall@dvn.co	om													SDWA	CWA	RCRA
	75-988-005					iscellaneous: Dale Woodall						10										
	giovengo@e		om							S	2									Complian	ice Y	or N
										801	8015			0		Ų.	20			PWSID#		
				Sam	ple Informat	tion				DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				-	
Time		440,00	No. of			Samula ID	P	Lab		N/08	NO/OR	Х Бу	C by	oride	200	2 100	A 8				Remarks	
Sampled	Date Sampled	Matrix	Containers			Sample ID	Field	Lab Numb	er	DRC	GRC	BTE	000	양	BGD	TCEC	RCR		4 4 11 3			
10:04	7/3/2024	S	1			BH06 - 0'		1							х							
10:24	7/3/2024	S	1			BH06 - 4'		2							x							
10:48	7/3/2024	S	1			BH07 - 0'		3							х							
10:55	7/3/2024	S	1			BH07 - 1'	7	4							x							
									1							-						
									1													
Harman Committee of the	l al Instruction an@ensolum		ase CC: cb	urton@e	ensolum.com	n, agiovengo@ensolum.com	, dale.wo	odall@	dvn	.cor	n, ie	strel	la@e	ensol	lum.	com,	bdea	al@e	nsolum	.com,		
I, (field sam			d authenticity	of this samp	le. I am aware t	hat tampering with or intentionally misla	abeling the sa	imple loca	tion,	date	or time	e of co	llectio	n is co	nsider	ed frau	ud and r	may be	grounds f	or legal action	e) i	
	ed by: (Signatu	re)	Date 7/	8/24	Time 7:19	Received by: (Signature)	Date	-8-20		Time	710	9		Ŋ	sampl	Chicago A.	eceived p			must be received avg temp above		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Refloquish	ed by (Signatu	re)		824	1755	Received by (Signature)	Date 7	.8.1		Time	7	35					d on i	ce:	Lab (	Jse Only N		
CV.	ed by: (Signatu		7.	8.24	2400			-9-2			20	)			<u>T1</u>				<u>T2</u>		<u>T3</u>	
	ed by: (Signatu		Date		Time	Received by: (Signature)	Date			Time							np °C		175			
Sample Mat	trix: S - Soil, Sd - S	iolid, Sg - Slu	ıdge, A - Aque	ous, <b>O</b> - Oth	er			ntainer T														
						er arrangements are made. Hazard										e clie	nt expe	ense.	he repoi	t for the ana	lysis of the	above





Printed: 7/9/2024 4:55:51PM

## **Envirotech Analytical Laboratory**

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:	Devon Energy - Carlsbad	Date Received:	07/09/24	11:20		Work Order ID:	E407042
Phone:	(505) 382-1211	Date Logged In:	07/08/24	16:47		Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	07/15/24	17:00 (4 day TAT)			
	Custody (COC)						
	he sample ID match the COC?	1.1.000	Yes				
	he number of samples per sampling site location mate	ch the COC	Yes				
	samples dropped off by client or carrier?	. 1 1 0	Yes	Carrier: <u>C</u>	<u>ourier</u>		
	te COC complete, i.e., signatures, dates/times, request	ted analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		Yes			<u>Comment</u>	s/Resolution
	Furn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	s, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
		temperature. 4 t	<u>c</u>				
	Container queous VOC samples present?		No				
	/OC samples collected in VOA Vials?		No NA				
	thead space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain-		Yes				
Field La			100				
	field sample labels filled out with the minimum infor	mation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes	L			
	Collectors name?		Yes				
	Preservation	10					
	the COC or field labels indicate the samples were pro	eserved?	No				
	ample(s) correctly preserved?  filteration required and/or requested for dissolved m	ata1a9	NA				
	•	etais?	No				
_	ase Sample Matrix	0					
	the sample have more than one phase, i.e., multiphas		No				
27. If yes	s, does the COC specify which phase(s) is to be analyst	zed?	NA				
	ract Laboratory						
	amples required to get sent to a subcontract laborator a subcontract laboratory specified by the client and if		No NA	Subcontract Lab:	: NA		
<u>C</u> lient I	<u>nstruction</u>						
							1
•							

Date



**APPENDIX F** 

**NMOCD Notifications** 

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 357343

## **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357343
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

#### QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2408624331				
Incident Name	NAPP2408624331 MUSKIE 23 CTB 5 @ 0				
Incident Type	Produced Water Release				
Incident Status	Initial C-141 Approved				
Incident Facility	[fAPP2317134046] MUSKIE 23 CTB 5				

Location of Release Source				
Site Name	MUSKIE 23 CTB 5			
Date Release Discovered	03/25/2024			
Surface Owner	Federal			

Liner Inspection Event Information	<del>-</del>
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	16,500
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	06/27/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Chad Hamilton Staff Geologist 940-923-0072
Please provide any information necessary for navigation to liner inspection site	A-23-26S-34E (32.0331535, -103.4354694)

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 357343

## **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357343
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

### CONDITIONS

Created	Condition	Condition
Ву		Date
wdale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	6/25/2024

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 373461

### **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	373461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2408624331					
Incident Name	NAPP2408624331 MUSKIE 23 CTB 5 @ 0					
Incident Type	Produced Water Release					
Incident Status	Remediation Closure Report Received					
Incident Facility	[fAPP2317134046] MUSKIE 23 CTB 5					

Location of Release Source				
Please answer all the questions in this group.				
Site Name	MUSKIE 23 CTB 5			
Date Release Discovered	03/25/2024			
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   Pipeline (Any)   Produced Water   Released: 64 BBL   Recovered: 64 BBL   Lost: 0 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)	Found a 3" T after the meter had developed a pinhole and leaked produced water into the vessel containment. Estimated spill is 64 bbls produced water. 64 bbls recovered. The meter was bypassed to stop the leak. Well was shut in too.	

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 373461

Phone: (505) 476-3470 Fax: (505) 476-3462		
QUESTIONS (continued)		
Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 373461 Action Type:	
QUESTIONS	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
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	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	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.	
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
	Name: Dale Woodall	

Title: EHS Professional

Date: 08/13/2024

Email: Dale.Woodall@dvn.com

I hereby agree and sign off to the above statement

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

QUESTIONS, Page 3

Action 373461

### **QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	373461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### 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	Direct Measurement	
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	Between ½ and 1 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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	Greater than 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	Between 1 and 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	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provid	ded 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 contami	ination 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)	1110	
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 com which includes the anticipated timelines for beginning and completing the remediation.	npleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC	
On what estimated date will the remediation commence	06/27/2024	
On what date will (or did) the final sampling or liner inspection occur	06/27/2024	
On what date will (or was) the remediation complete(d)	06/27/2024	
What is the estimated surface area (in square feet) that will be reclaimed	0	
What is the estimated volume (in cubic yards) that will be reclaimed	0	
What is the estimated surface area (in square feet) that will be remediated	0	
What is the estimated volume (in cubic yards) that will be remediated	0	
These estimated dates and measurements are recognized to be the best guess or calculation	n 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 adjuste	ed 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.

District I

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

QUESTIONS, Page 4

Action 373461

### **QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	373461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### 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.)	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	samples collected beneath the liner indicated results below OCD action levels for depth to water greater than 100 feet.

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: 08/13/2024

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

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

QUESTIONS, Page 5

Action 373461

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	373461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

QUESTIONS, Page 6

Action 373461

QUESTI	IONS (continued)
Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 373461 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	•
Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}
Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation 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	0
What was the total volume (cubic yards) remediated	0
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	samples collected beneath the liner indicated results below OCD action levels for depth to water greater than 100 feet.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing 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

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

QUESTIONS, Page 7

Action 373461

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	373461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

CONDITIONS

Action 373461

## **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	373461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

rhamlet	We have received your Remediation Closure Report for Incident #NAPP2408624331 MUSKIE 23 CTB 5, thank you. This Remediation Closure Report is approved.	8/29/2024	
Created By	Condition	Condition Date	