



May 8, 2024

New Mexico Energy Minerals and Natural Resources Department

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

**Re: Deferral Request
Tucker Draw 9-4-7H
Incident Number nAPP2406026361
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC (WPX), has prepared this *Deferral Request* to document assessment and soil sampling activities at the Tucker Draw 9-4-7H (Site) in Unit A, Section 16, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The Site (32.0491921°, -103.8787382°) is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, WPX is submitting this *Deferral Request*, describing Site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2406026361 until the Site is reconstructed and/or the well pad is abandoned.

BACKGROUND

On February 24, 2024, a failure on separator pipping resulted in the release of approximately 50 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 50 bbls of released produced water were recovered from within the lined containment. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on February 29, 2024, and subsequently the release was assigned Incident Number nAPP2406026361. A 48-hour advance notice of liner inspection was provided via email to the NMOCD via web portal. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery. Upon inspection, the liner was determined to be insufficient.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) 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.

Depth to groundwater at the Site is estimated to be greater than 55 feet below ground surface (bgs) based on groundwater depth measurement of a nearby water well. On July 28, 2022, a soil boring (New Mexico Office of the State Engineer (NMOSE) file number C-04655 POD1) was drilled nearly 440 feet northwest of the Site. Soil boring C-04655 was drilled to a depth of 55 feet bgs. Groundwater was not encountered, confirming groundwater beneath the Site is reasonably estimated to be greater than 55 feet bgs as indicated on the well log and record (see Appendix A).

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 0.22 miles southeast 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 (medium karst potential 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

SITE ASSESSMENT ACTIVITIES

On March 5, 2024, Ensolum personnel visited the Site to perform a liner integrity inspection and to conducted Site assessment activities. Ensolum personnel competent in conducting liner inspections identified five tears within the liner and it was determined the liner was insufficient and did not have the ability to contain the release in question. Four assessment soil samples (SS01 through SS04) were collected from each side of the lined secondary containment at surface level. The soil samples were field screened for TPH utilizing a PetroFLAG[®] Hydrocarbon Test Kit and chloride using the MOHR method titration. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted in Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil 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 Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals 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 Standard Method SM4500.

DELINEATION ACTIVITIES

Ensolum returned to the Site on March 26, 2024, to conduct delineation activities and to assess for the presence or absence of impacts to soil beneath the lined containment. The liner was found insufficient during the inspection and as such, eight boreholes (BH01 through BH08) were advanced in the general vicinity of the tears in the damaged liner. The boreholes were advanced via hand auger to a depth of 4 feet bgs in boreholes BH01, BH02, BH05, and BH08; to a depth of 2 feet bgs in borehole BH03; a

depth of 1-foot bgs in borehole BH04; and to a depth of 3 feet bgs in borehole BH06. Borehole BH07 was sampled at ground surface. Discrete delineation soil samples were collected from each borehole and field screened for TPH and chloride at each foot as described above. The soil samples were handled and analyzed as previously described. Field screening results and observations from the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples SS01 through SS04, collected from outside of the lined secondary containment, indicated all COC concentrations were compliant with Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH02 through BH07 indicated all COC concentrations were compliant with the Site Closure Criteria at ground surface. Concentrations of TPH exceeded the Site Closure Criteria at ground surface in boreholes BH01 and BH08. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

DEFERRAL REQUEST

WPX is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the lined containment. Impacted soil is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction.

Impacted soil remaining in place beneath the liner, which is delineated vertically by delineation soil samples from boreholes (BH01 through BH08), collected at a terminal depth of 4 feet bgs in boreholes BH01, BH02, BH05, and BH08; terminal depth of 2 feet bgs in borehole BH03; 1-foot bgs in borehole BH04; terminal depth of 3 feet bgs in borehole BH06; and ground surface in borehole BH07. The release was defined laterally by surface soil samples SS01 through SS04, collected at the ground surface. A maximum of 426 cubic yards of TPH-impacted soil remains in place beneath the liner assuming a maximum 2-foot depth based on the delineation soil samples listed above. Impacted soil volumes estimate include waste-containing soil volumes to be addressed through reconstruction of the containment or final pad reclamation. The area of deferment is depicted on Figure 3.

WPX does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 55 feet bgs, the release was contained laterally by the lined containment, and the impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired by WPX and will restrict future vertical migration of residual impacts and any interactions with humans and/or wildlife.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, WPX requests deferral of final remediation for Incident Number nAPP2406026361 until final reclamation of the well pad or major construction, whichever comes first. Remedial actions completed to date have been protective of human health, the environment, and groundwater and deferment of impacted soil beneath the lined containment appears to be equally protective and warranting deferment. Notifications submitted to the NMOCD are included in Appendix E.

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

Tucker Draw 9-4-7H



Sincerely,
Ensolum, LLC

A handwritten signature in blue ink, appearing to read "Ashely Giovengo".

Ashely Giovengo
Senior Scientist

A handwritten signature in blue ink, appearing to read "Daniel R. Moir".

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

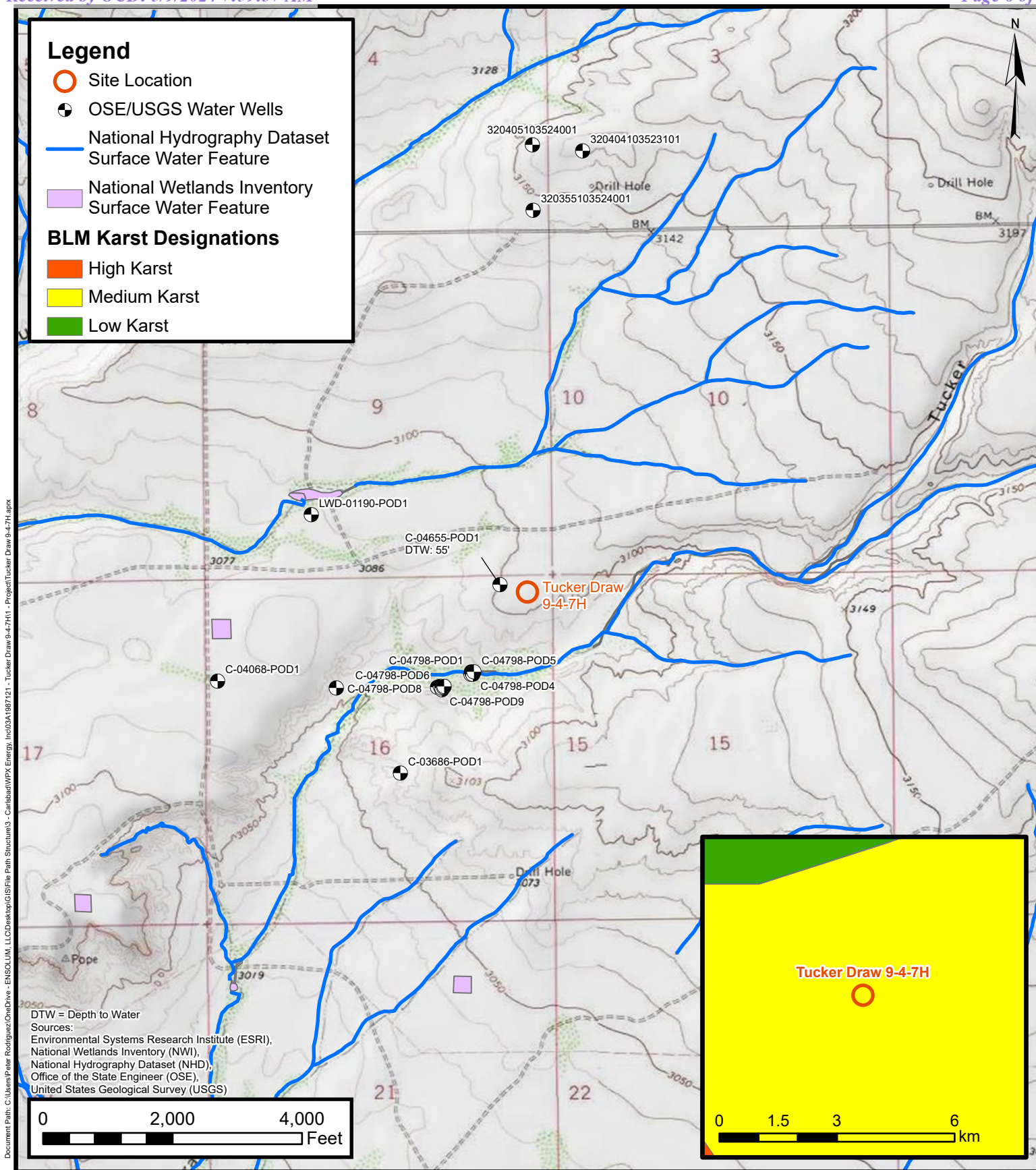
cc: Jim Raley, WPX
Bureau of Land Management


Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Area of Requested Deferral
Table 1	Soil Sample Analytical Results
Appendix A	Reference Wells
Appendix B	Photographic Log
Appendix C	Lithographic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	Email Correspondence



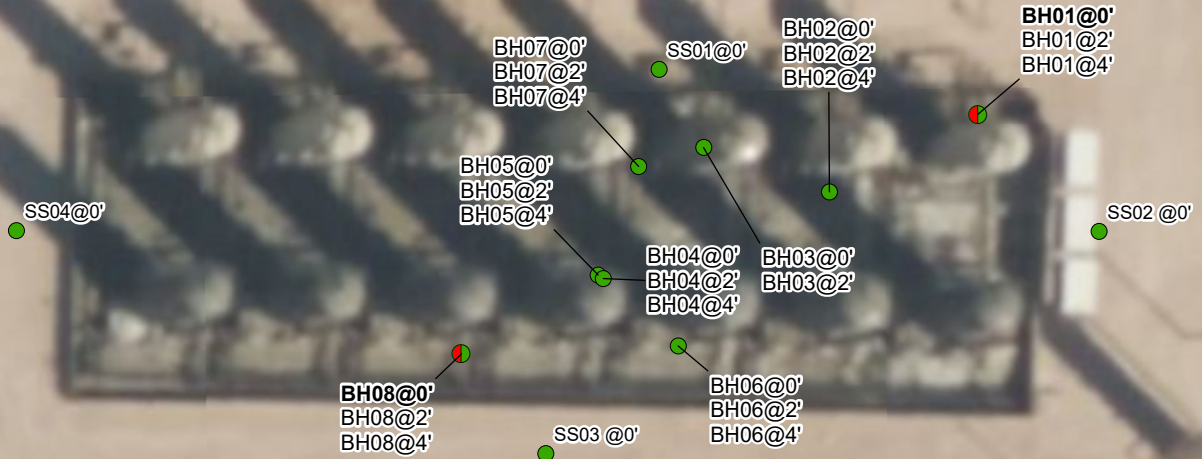
FIGURES



	<h2 style="margin: 0;">Site Receptor Map</h2> <p style="margin: 5px 0;">WPX Energy Permian, LLC Tucker Draw 9-4-7H Incident Number: nAPP2406026361 Unit A, Section 16, T 26S, R 30E Eddy County, New Mexico</p>	<p style="margin: 0; font-size: 1.2em;">FIGURE</p> <p style="margin: 0; font-size: 2em;">1</p>
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Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria



Delineation Soil Sample Locations

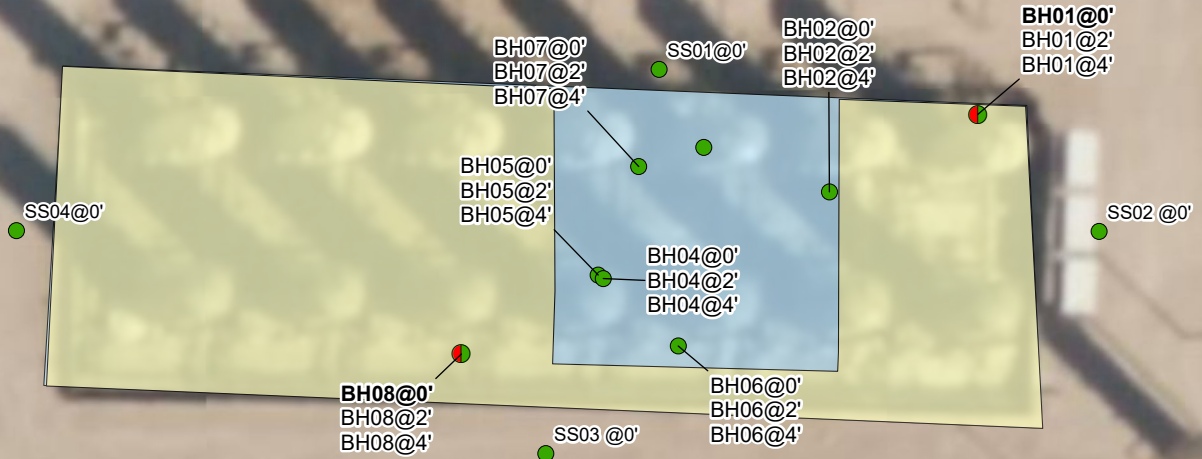
WPX Energy Permian, LLC
Tucker Draw 9-4-7H
Incident Number: nAPP2406026361
Unit A, Section 16, Township 26S, Range 30E
Eddy County, New Mexico

FIGURE

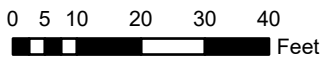
2

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Area of Requested Deferral
- Containment



Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.



Sources: Environmental Systems Research Institute (ESRI)



Area of Requested Deferral

WPX Energy Permian, LLC
Tucker Draw 9-4-7H
Incident Number: nAPP2406026361
Unit A, Section 16, Township 26S, Range 30E
Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Tucker Draw 9-4-7H
 WPX Energy Permian, LLC
 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	10,000
Delineation Soil Samples										
SS01	3/5/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	69.6
SS02	3/5/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	80.7
SS03	3/5/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	51.6
SS04	3/5/2024	0	<0.0250	<0.0250	<20.0	27.7	60.6	27.7	88.3	246
BH01	3/26/2024	0	<0.0250	<0.0250	<20.0	6,020	3,980	6,020	10,000	3,150
BH01	3/26/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	866
BH01	3/26/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	476
BH02	3/26/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	3,220
BH02	3/26/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	1,480
BH02	3/26/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	465
BH03	3/26/2024	0	<0.0250	<0.0250	<20.0	119	89.7	119	208.7	4,770
BH03	3/26/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	222
BH04	3/26/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	1,170
BH04	3/26/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	449
BH05	3/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	974
BH05	3/27/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	1,370
BH05	3/27/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	39.0
BH06	3/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	662
BH06	3/27/2024	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	319
BH07	3/27/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	370
BH08	3/27/2024	0	<0.0250	<0.0250	<20.0	3,920	2,520	3,920	6,440	2,850
BH08	3/27/2024	2	<0.0250	<0.0250	<20.0	105	83.3	105	188.3	2,590
BH08	3/27/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	501

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

<": Laboratory Analytical result is less than reporting limit

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

* 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.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DTI AUG 8 2022 PM10:17

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4655			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 58.26 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	52	48.37 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NE NE Sec.16 T26S R30E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 7/28/2022		DRILLING ENDED 7/28/2022		DEPTH OF COMPLETED WELL (FT) Temporary Well		BORE HOLE DEPTH (FT) ±55	
	DEPTH WATER FIRST ENCOUNTERED (FT) N/A							
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		DATE STATIC MEASURED 7/28/22, 8/2/22
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF FITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM 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 55		±6.5	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM 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-4655	POD NO. 1	TRN NO. 729332
LOCATION 26S-30E-16-1-2-2	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		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)
	FROM	TO				
	0	4	4	Sand, Fine-grained, poorly graded, Brown	Y ✓ N	
	4	48	44	Sand, Fine-grained, poorly graded, with caliche Tan and white	Y ✓ N	
	48	55	7	Sand, Fine-grained, poorly graded, Tan 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	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> 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: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. <div style="text-align: right; color: blue;">DSE DTI AUG 8 2022 am10:17</div>	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, 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:	
	 Jackie D. Atkins SIGNATURE OF DRILLER / PRINT SIGNEE NAME	8/4/2022 DATE

FOR OSE INTERNAL USE

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

FILE NO. C-4655	POD NO. 1	TRN NO. 729332
LOCATION 26S. 30E. 16. 1. 2. 2.	WELL TAG ID NO. —	PAGE 2 OF 2



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

August 4, 2022

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4655 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-4655 Pod1.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton". The signature is written in a cursive, flowing style.

Lucas Middleton

Enclosures: as noted above

USE DTI AUG 8 2022 AM 10:17



APPENDIX B

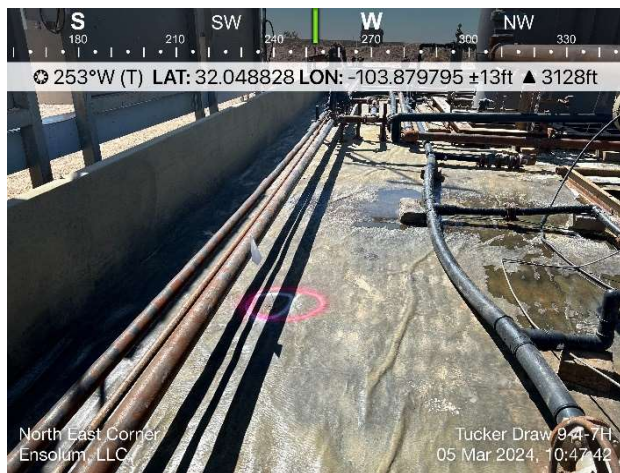
Photographic Log

**Photographic Log**

WPX Energy Permian, LLC

Tucker Draw 9-4-7H

Incident Number: nAPP2406026361

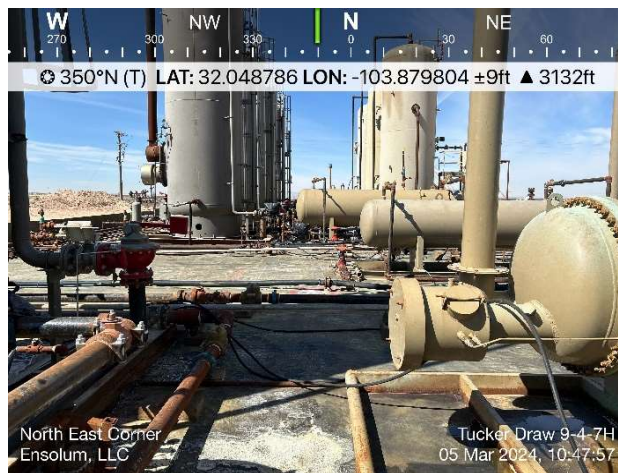


Photograph 1

Date: 03/05/2024

Description: Liner Inspection

View: West

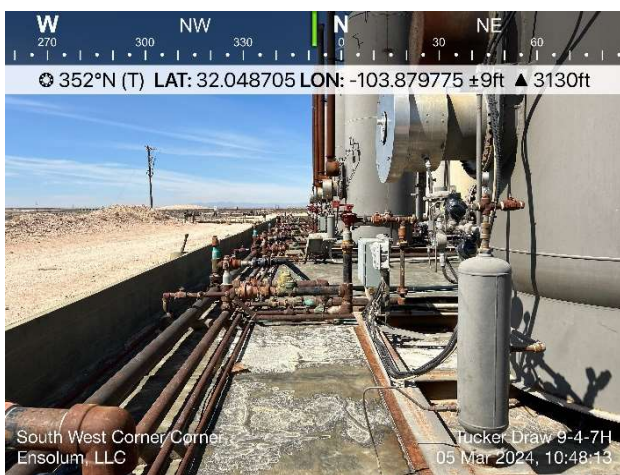


Photograph 2

Date: 03/05/2024

Description: Liner Inspection

View: North

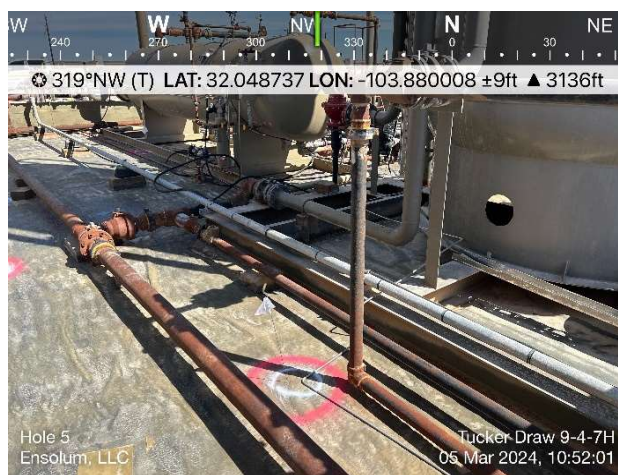


Photograph 3

Date: 03/05/2024

Description: Liner Inspection

View: North



Photograph 4

Date: 03/05/2024

Description: Liner Inspection

View: Northwest



Photographic Log

WPX Energy Permian, LLC

Tucker Draw 9-4-7H

Incident Number: nAPP2406026361



Photograph 5

Date: 03/05/2024

Description: Liner Inspection

View: East

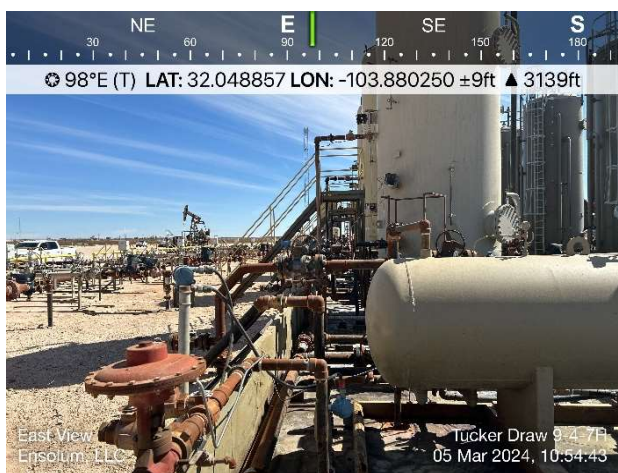


Photograph 6

Date: 03/05/2024

Description: Liner Inspection

View: Northwest



Photograph 7

Date: 03/05/2024

Description: Liner Inspection

View: East



Photograph 8

Date: 03/05/2024

Description: Liner Inspection

View: Southeast

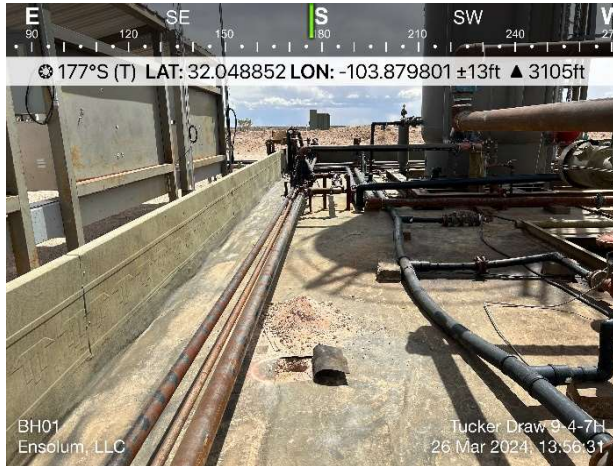


Photographic Log

WPX Energy Permian, LLC

Tucker Draw 9-4-7H

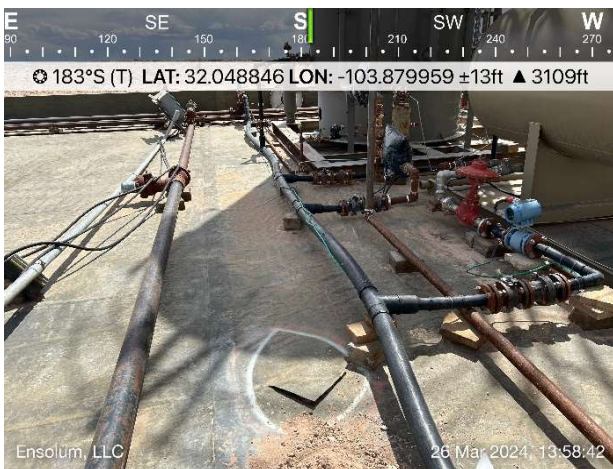
Incident Number: nAPP2406026361



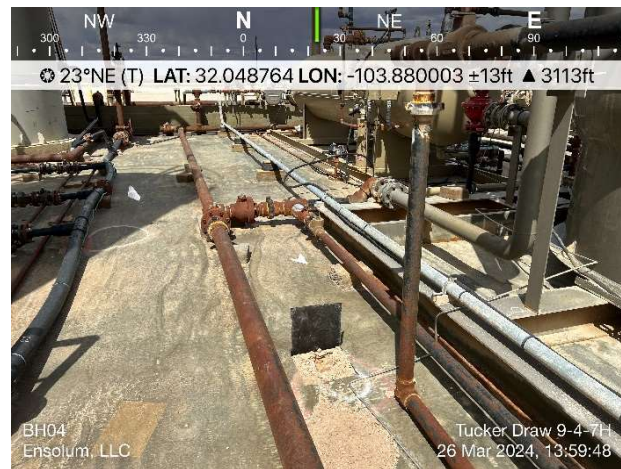
Photograph 9 Date: 03/26/2024
Description: Liner Delineation Sampling
View: South



Photograph 10 Date: 03/26/2024
Description: Liner Delineation Sampling
View: North



Photograph 11 Date: 03/26/2024
Description: Liner Delineation Sampling
View: South



Photograph 12 Date: 03/26/2024
Description: Liner Delineation Sampling
View: North

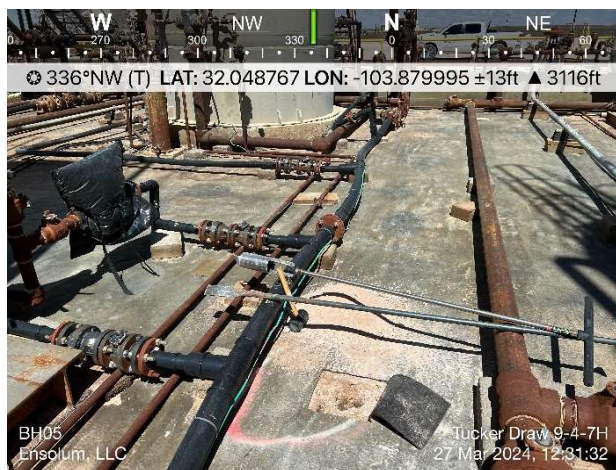


Photographic Log

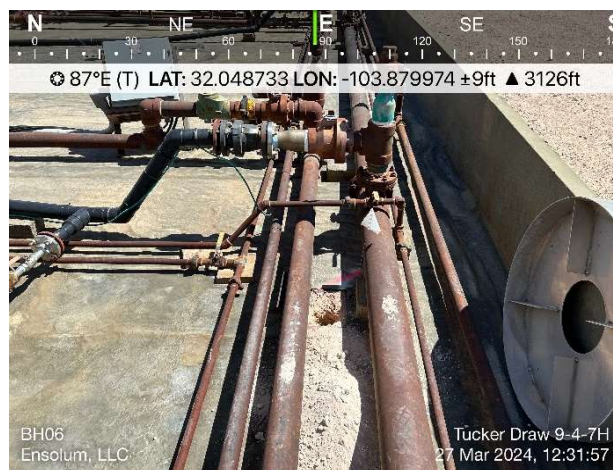
WPX Energy Permian, LLC

Tucker Draw 9-4-7H

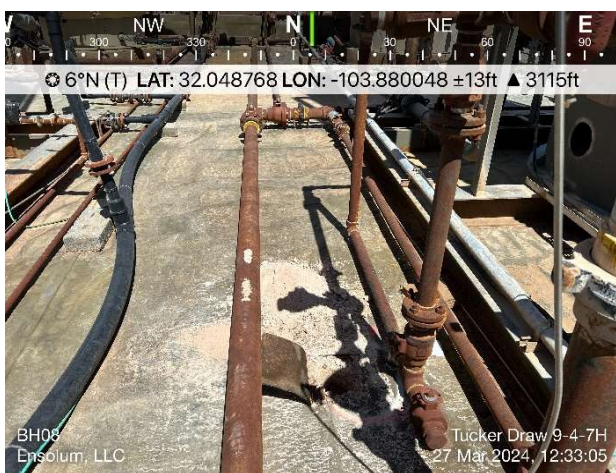
Incident Number: nAPP2406026361



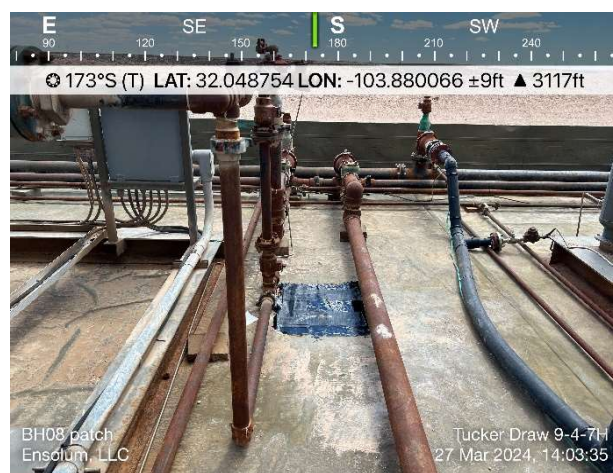
Photograph 13 Date: 03/27/2024
Description: Liner Delineation Sampling
View: Northwest



Photograph 14 Date: 03/27/2024
Description: Liner Delineation Sampling
View: East



Photograph 15 Date: 03/27/2024
Description: Liner Delineation Sampling
View: North





Photograph 16 Date: 03/27/2024
Description: Liner Delineation Sampling
View: South





APPENDIX C


Lithologic Soil Sampling Logs


								Sample Name: BH01		3/26/2024	
								Site Name: Tucker Draw 9-4-7H			
								Incident Number: nAPP2406026361			
								Job Number: 03A1987121			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.048813, -103.879805								Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and with a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	1,999		N	BH01		0	CCHE	Caliche, No stain, Moist			
M	862		N	BH01		1	CCHE	Caliche, No stain, Moist			
D	748		N	BH01		2	CCHE	Caliche, No stain, Dry			
D	649		N	BH01		3	CCHE	Caliche, No stain, Dry			
D	414	52	N	BH01		4	CCHE	Caliche, No stain, Dry			
Total Depth @ 4 ft bgs											


								Sample Name: BH02		3/26/2024			
								Site Name: Tucker Draw 9-4-7H					
								Incident Number: nAPP2406026361					
								Job Number: 03A1987121					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger			
Coordinates: 32.048781, -103.879880								Hole Diameter: 3"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and with a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
M	2,990		N	BH02		0	CCHE	Caliche, No stain, Moist					
M	1,024		N	BH02		1	CCHE	Caliche, No stain, Moist					
D	1,624		N	BH02		2	CCHE	Caliche, No stain, Dry					
D	649		N	BH02		3	CCHE	Caliche, No stain, Dry					
D	470	56	N	BH02		4	CCHE	Caliche, No stain, Dry					
Total Depth @ 4 ft bgs													

					Sample Name: BH04		3/27/2024	
LITHOLOGIC / SOIL SAMPLING LOG					Site Name: Tucker Draw 9-4-7H			
					Incident Number: nAPP2406026361			
					Job Number: 03A1987121			
Coordinates: 32.048744, -103.879995					Logged By: Israel Estrella		Method: Hand Auger	
					Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and with a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	1,764		N	BH04		0	CCHE	Caliche, No stain, Moist
D	319	40	N	BH04		1	SP-SM	Brown dirt, No stain, Dry
Total Depth @ 1 ft bgs								

								Sample Name: BH05		3/26/2024			
								Site Name: Tucker Draw 9-4-7H					
								Incident Number: nAPP2406026361					
								Job Number: 03A1987121					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger			
Coordinates: 32.048746, -103.879997								Hole Diameter: 3"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and with a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
M	862		N	BH05		0	CCHE	Caliche, No stain, Moist					
M	1,024		N	BH05		1	CCHE	Caliche, No stain, Moist					
D	1,506		N	BH05		2	CCHE	Caliche, No stain, Dry					
D	716		N	BH05		3	CCHE	Caliche, No stain, Dry					
D	ND	22	N	BH05		4	CCHE	Caliche, No stain, Dry					
Total Depth @ 4 ft bgs													

								Sample Name: BH06		3/27/2024			
								Site Name: Tucker Draw 9-4-7H					
								Incident Number: nAPP2406026361					
								Job Number: 03A1987121					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger			
Coordinates: 32.048715, -103.879957								Hole Diameter: 3"		Total Depth: 3'			
Comments: Field screening conducted with HACH Chloride Test Strips and with a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
M	588		N	BH06		0	CCHE	Caliche, No stain, Moist					
M	3,259		N	BH06		1	CCHE	Caliche, No stain, Moist					
D	789		N	BH06		2	CCHE	Caliche, No stain, Dry					
D	235	68	N	BH06		3	CCHE	Caliche, No stain, Dry					
Total Depth @ 3 ft bgs													

 ENSOLUM		Sample Name: BH07		3/27/2024				
		Site Name: Tucker Draw 9-4-7H						
		Incident Number: nAPP2406026361						
		Job Number: 03A1987121						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: Israel Estrella		Method: Hand Auger		
Coordinates: 32.048792, -103.879976				Hole Diameter: 3"		Total Depth: 1'		
Comments: Field screening conducted with HACH Chloride Test Strips and with a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	414	33	N	BH07		0	CCHE	Caliche, No stain, Moist
D	ND		N	BH07		1	SP-SM	Brown dirt, No stain, Dry
Total Depth @ 1 ft bgs								

								Sample Name: BH08		3/26/2024			
								Site Name: Tucker Draw 9-4-7H					
								Incident Number: nAPP2406026361					
								Job Number: 03A1987121					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger			
Coordinates: 32.048713, -103.880067								Hole Diameter: 3"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and with a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
M	2,828		N	BH08		0	CCHE	Caliche, No stain, Moist					
M	3,511		N	BH08		1	SP-SM	Brown dirt, No stain, Moist					
D	2,464		N	BH08		2	CCHE	Caliche, No stain, Dry					
D	862		N	BH08		3	CCHE	Caliche, No stain, Dry					
D	470	63	N	BH08		4	CCHE	Caliche, No stain, Dry					
Total Depth @ 4 ft bgs													

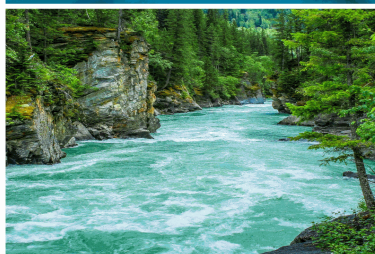


APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Tucker Draw 9-4-7H

Work Order: E403056

Job Number: 01058-0007

Received: 3/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/12/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/12/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Tucker Draw 9-4-7H
Workorder: E403056
Date Received: 3/7/2024 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/7/2024 7:00:00AM, under the Project Name: Tucker Draw 9-4-7H.

The analytical test results summarized in this report with the Project Name: Tucker Draw 9-4-7H 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 regarding 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,

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/12/24 14:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 -0'	E403056-01A	Soil	03/05/24	03/07/24	Glass Jar, 2 oz.
SS02 -0'	E403056-02A	Soil	03/05/24	03/07/24	Glass Jar, 2 oz.
SS03 -0'	E403056-03A	Soil	03/05/24	03/07/24	Glass Jar, 2 oz.
SS04 -0'	E403056-04A	Soil	03/05/24	03/07/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/12/2024 2:19:12PM
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SS01 -0'

E403056-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2410075	
Benzene	ND	0.0250	1	03/07/24	03/08/24	
Ethylbenzene	ND	0.0250	1	03/07/24	03/08/24	
Toluene	ND	0.0250	1	03/07/24	03/08/24	
o-Xylene	ND	0.0250	1	03/07/24	03/08/24	
p,m-Xylene	ND	0.0500	1	03/07/24	03/08/24	
Total Xylenes	ND	0.0250	1	03/07/24	03/08/24	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		03/07/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2410075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/24	03/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.9 %	70-130		03/07/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410092	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/08/24	03/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/08/24	03/09/24	
Surrogate: n-Nonane	94.2 %	50-200		03/08/24	03/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2410076	
Chloride	69.6	40.0	2	03/07/24	03/07/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/12/2024 2:19:12PM
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SS02 -0'

E403056-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2410075	
Benzene	ND	0.0250	1	03/07/24	03/08/24	
Ethylbenzene	ND	0.0250	1	03/07/24	03/08/24	
Toluene	ND	0.0250	1	03/07/24	03/08/24	
o-Xylene	ND	0.0250	1	03/07/24	03/08/24	
p,m-Xylene	ND	0.0500	1	03/07/24	03/08/24	
Total Xylenes	ND	0.0250	1	03/07/24	03/08/24	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		03/07/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2410075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/24	03/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.4 %	70-130		03/07/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410092	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/08/24	03/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/08/24	03/09/24	
Surrogate: n-Nonane	93.8 %	50-200		03/08/24	03/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2410076	
Chloride	80.7	40.0	2	03/07/24	03/07/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/12/2024 2:19:12PM
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SS03 -0'

E403056-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2410075	
Benzene	ND	0.0250	1	03/07/24	03/08/24	
Ethylbenzene	ND	0.0250	1	03/07/24	03/08/24	
Toluene	ND	0.0250	1	03/07/24	03/08/24	
o-Xylene	ND	0.0250	1	03/07/24	03/08/24	
p,m-Xylene	ND	0.0500	1	03/07/24	03/08/24	
Total Xylenes	ND	0.0250	1	03/07/24	03/08/24	
Surrogate: 4-Bromochlorobenzene-PID	95.0 %	70-130		03/07/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2410075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/24	03/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.0 %	70-130		03/07/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410092	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/08/24	03/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/08/24	03/09/24	
Surrogate: n-Nonane	98.5 %	50-200		03/08/24	03/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2410076	
Chloride	51.6	20.0	1	03/07/24	03/07/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/12/2024 2:19:12PM
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SS04 -0'

E403056-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2410075	
Benzene	ND	0.0250	1	03/07/24	03/08/24	
Ethylbenzene	ND	0.0250	1	03/07/24	03/08/24	
Toluene	ND	0.0250	1	03/07/24	03/08/24	
o-Xylene	ND	0.0250	1	03/07/24	03/08/24	
p,m-Xylene	ND	0.0500	1	03/07/24	03/08/24	
Total Xylenes	ND	0.0250	1	03/07/24	03/08/24	
Surrogate: 4-Bromochlorobenzene-PID	94.7 %	70-130		03/07/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2410075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/24	03/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.5 %	70-130		03/07/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410092	
Diesel Range Organics (C10-C28)	27.7	25.0	1	03/08/24	03/09/24	
Oil Range Organics (C28-C36)	60.6	50.0	1	03/08/24	03/09/24	
Surrogate: n-Nonane	90.4 %	50-200		03/08/24	03/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2410076	
Chloride	246	20.0	1	03/07/24	03/07/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/12/2024 2:19:12PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2410075-BLK1)Prepared: 03/07/24 Analyzed: 03/07/24

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-PID7.878.0098.470-130

LCS (2410075-BS1)Prepared: 03/07/24 Analyzed: 03/07/24

Benzene	5.11	0.0250	5.00		102	70-130			
Ethylbenzene	4.99	0.0250	5.00		99.9	70-130			
Toluene	5.12	0.0250	5.00		102	70-130			
o-Xylene	5.06	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			

Surrogate: 4-Bromochlorobenzene-PID7.918.0098.970-130

Matrix Spike (2410075-MS1)Source: E403053-05Prepared: 03/07/24 Analyzed: 03/07/24

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	5.01	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			

Surrogate: 4-Bromochlorobenzene-PID7.828.0097.870-130

Matrix Spike Dup (2410075-MSD1)Source: E403053-05Prepared: 03/07/24 Analyzed: 03/07/24

Benzene	5.40	0.0250	5.00	ND	108	54-133	6.56	20	
Ethylbenzene	5.29	0.0250	5.00	ND	106	61-133	6.76	20	
Toluene	5.41	0.0250	5.00	ND	108	61-130	6.72	20	
o-Xylene	5.38	0.0250	5.00	ND	108	63-131	7.16	20	
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131	6.72	20	
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131	6.87	20	

Surrogate: 4-Bromochlorobenzene-PID7.878.0098.470-130



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/12/2024 2:19:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2410075-BLK1) Prepared: 03/07/24 Analyzed: 03/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		89.0	70-130			

LCS (2410075-BS2) Prepared: 03/07/24 Analyzed: 03/07/24

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike (2410075-MS2) Source: E403053-05 Prepared: 03/07/24 Analyzed: 03/07/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.8	70-130			

Matrix Spike Dup (2410075-MSD2) Source: E403053-05 Prepared: 03/07/24 Analyzed: 03/07/24

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130	0.477	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		89.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/12/2024 2:19:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2410092-BLK1) Prepared: 03/08/24 Analyzed: 03/08/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		94.9	50-200			

LCS (2410092-BS1) Prepared: 03/08/24 Analyzed: 03/08/24

Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike (2410092-MS1) Source: E403045-04 Prepared: 03/08/24 Analyzed: 03/08/24

Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	48.6		50.0		97.1	50-200			

Matrix Spike Dup (2410092-MSD1) Source: E403045-04 Prepared: 03/08/24 Analyzed: 03/08/24

Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	0.130	20	
Surrogate: n-Nonane	48.1		50.0		96.3	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/12/2024 2:19:12PM

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 (2410076-BLK1)					Prepared: 03/07/24 Analyzed: 03/07/24				
Chloride	ND	20.0							
LCS (2410076-BS1)					Prepared: 03/07/24 Analyzed: 03/07/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2410076-MS1)					Source: E403053-04		Prepared: 03/07/24 Analyzed: 03/07/24		
Chloride	264	20.0	250	ND	106	80-120			
Matrix Spike Dup (2410076-MSD1)					Source: E403053-04		Prepared: 03/07/24 Analyzed: 03/07/24		
Chloride	264	20.0	250	ND	106	80-120	0.212	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:	Tucker Draw 9-4-7H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/12/24 14:19

- 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.

Client: Devon		Bill To		Lab Use Only				TAT				EPA Program				
Project: Tucker Draw 9-4-7H		Attention: Dale Woodall		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo		Address: 205 E Bender Road #150		E 403056		01058-0007					x					
Address: 3122 National Parks Hwy		City, State, Zip: Hobbs NM, 88240		Analysis and Method									RCRA			
City, State, Zip: Carlsbad NM, 88220		Phone: (575)748-1838		01/DRO/ORO by	8021	3260	0010	300.0	NM	TX	State					
Phone: 575-988-0055		Email: dale.woodall@dvn.com									NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com																
Report due by:																

[illegible]

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, iestrella@ensolum.com

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: Israel Estrella

Sampled by: Israel Estrella

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) <i>[Signature]</i>	Date 3/6/24	Time 8:21 AM	Received by: (Signature) <i>Nichelle Gayle</i>	Date 3-6-24	Time 0821	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Nichelle Gayle</i>	Date 3-6-24	Time 1500	Received by: (Signature) <i>Andrew Jones</i>	Date 3-6-24	Time 1700	
Relinquished by: (Signature) <i>Andrew Jones</i>	Date 3-6-24	Time 2330	Received by: (Signature) <i>AG</i>	Date 3/7/24	Time 0700	

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 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 sample 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 Analytical Laboratory

Printed: 3/7/2024 10:40:21AM

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
 Phone: (505) 382-1211
 Email: ashley.giovengo@wescominc.com

Date Received: 03/07/24 07:00
 Date Logged In: 03/07/24 07:38
 Due Date: 03/13/24 17:00 (4 day TAT)

Work Order ID: E403056
 Logged In By: Angelina Pineda

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

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 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 filtration 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 InstructionComments/Resolution

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

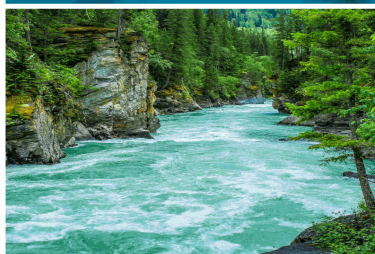
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Tucker Draw 9-4-7H

Work Order: E403259

Job Number: 01058-0007

Received: 3/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/3/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/3/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Tucker Draw 9-4-7H
Workorder: E403259
Date Received: 3/28/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2024 5:30:00AM, under the Project Name: Tucker Draw 9-4-7H.

The analytical test results summarized in this report with the Project Name: Tucker Draw 9-4-7H 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 regarding 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
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/03/24 10:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E403259-01A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH01-2'	E403259-02A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH01-4'	E403259-03A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH02 -0'	E403259-04A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH02 -2'	E403259-05A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH02 -4'	E403259-06A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH03 -0'	E403259-07A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH03 -2'	E403259-08A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH04 -0'	E403259-09A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
BH04 -1'	E403259-10A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:51:09AM
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BH01-0'

E403259-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	97.2 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.0 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	6020	250	10	03/29/24	04/02/24	
Oil Range Organics (C28-C36)	3980	500	10	03/29/24	04/02/24	
Surrogate: n-Nonane	150 %	50-200		03/29/24	04/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413100	
Chloride	3150	40.0	2	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:51:09AM
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BH01-2'

E403259-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.2 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/02/24	
Surrogate: n-Nonane	95.8 %	50-200		03/29/24	04/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413100	
Chloride	866	20.0	1	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:51:09AM
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BH01-4'

E403259-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.7 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
Surrogate: n-Nonane	93.2 %	50-200		03/29/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413100	
Chloride	476	20.0	1	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:51:09AM
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BH02 -0'

E403259-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.0 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
Surrogate: n-Nonane	93.7 %	50-200		03/29/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413100	
Chloride	3220	40.0	2	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported: 4/3/2024 10:51:09AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

BH02 -2'

E403259-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
Surrogate: n-Nonane	97.9 %	50-200		03/29/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413100	
Chloride	1480	20.0	1	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:51:09AM
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BH02 -4'

E403259-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
Surrogate: n-Nonane	95.9 %	50-200		03/29/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413100	
Chloride	465	20.0	1	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:51:09AM
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BH03 -0'

E403259-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.2 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.3 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	119	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	89.7	50.0	1	03/29/24	04/01/24	
Surrogate: n-Nonane	94.3 %	50-200		03/29/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413100	
Chloride	4770	40.0	2	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:51:09AM
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BH03 -2'

E403259-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.2 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.7 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
Surrogate: n-Nonane	98.0 %	50-200		03/29/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413100	
Chloride	222	20.0	1	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:51:09AM
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BH04 -0'

E403259-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.9 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
Surrogate: n-Nonane	101 %	50-200		03/29/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413100	
Chloride	1170	100	5	03/28/24	03/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/3/2024 10:51:09AM
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BH04 -1'

E403259-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413112	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/24	04/01/24	
Surrogate: n-Nonane	90.4 %	50-200		03/29/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413100	
Chloride	449	20.0	1	03/28/24	03/28/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/3/2024 10:51:09AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2413088-BLK1) Prepared: 03/28/24 Analyzed: 03/28/24

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	7.45		8.00		93.1	70-130			

LCS (2413088-BS1) Prepared: 03/28/24 Analyzed: 03/28/24

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.17	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike (2413088-MS1) Source: E403257-07 Prepared: 03/28/24 Analyzed: 03/28/24

Benzene	5.12	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	61-133			
Toluene	5.12	0.0250	5.00	ND	102	61-130			
o-Xylene	5.05	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

Matrix Spike Dup (2413088-MSD1) Source: E403257-07 Prepared: 03/28/24 Analyzed: 03/28/24

Benzene	5.19	0.0250	5.00	ND	104	54-133	1.30	20	
Ethylbenzene	5.04	0.0250	5.00	ND	101	61-133	1.30	20	
Toluene	5.18	0.0250	5.00	ND	104	61-130	1.23	20	
o-Xylene	5.12	0.0250	5.00	ND	102	63-131	1.24	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	1.25	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	1.25	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/3/2024 10:51:09AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413088-BLK1) Prepared: 03/28/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

LCS (2413088-BS2) Prepared: 03/28/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2413088-MS2) Source: E403257-07 Prepared: 03/28/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

Matrix Spike Dup (2413088-MSD2) Source: E403257-07 Prepared: 03/28/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130	11.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/3/2024 10:51:09AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413112-BLK1) Prepared: 03/29/24 Analyzed: 04/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			

LCS (2413112-BS1) Prepared: 03/29/24 Analyzed: 04/01/24

Diesel Range Organics (C10-C28)	317	25.0	250		127	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

Matrix Spike (2413112-MS1) Source: E403258-04 Prepared: 03/29/24 Analyzed: 04/01/24

Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132			
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			

Matrix Spike Dup (2413112-MSD1) Source: E403258-04 Prepared: 03/29/24 Analyzed: 04/01/24

Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	38-132	3.08	20	
Surrogate: n-Nonane	46.3		50.0		92.5	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/3/2024 10:51:09AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2413100-BLK1)					Prepared: 03/28/24 Analyzed: 03/28/24				
Chloride	ND	20.0							
LCS (2413100-BS1)					Prepared: 03/28/24 Analyzed: 03/28/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2413100-MS1)					Source: E403259-05		Prepared: 03/28/24 Analyzed: 03/28/24		
Chloride	1710	20.0	250	1480	92.6	80-120			
Matrix Spike Dup (2413100-MSD1)					Source: E403259-05		Prepared: 03/28/24 Analyzed: 03/28/24		
Chloride	1640	20.0	250	1480	65.4	80-120	4.06	20	M4

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:	Tucker Draw 9-4-7H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/03/24 10:51

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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.



Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy

Report due by:	Bill To	Lab Use Only		TAT				EPA Program					
Project: Tucker Draw 9-4-7H	Attention: Jim Raley	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo	Address: 5315 Buena Vista Dr	E403259	01058-0007				x						
Address: 3122 National Parks Hwy	City, State, Zip: Carlsbad NM, 88220	Analysis and Method				RCRA							
City, State, Zip: Carlsbad NM, 88220	Phone: (575)689-7597	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055	Email: jim.raley@dv.com								NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
10:26	3/26/2024	Soil	1	BH01 - 0'	1						X		
12:17	3/26/2024	Soil	1	BH01 - 2'	2						X		
13:11	3/26/2024	Soil	1	BH01 - 4'	3						X		
10:44	3/26/2024	Soil	1	BH02 - 0'	4						X		
12:29	3/26/2024	Soil	1	BH02 - 2'	5						X		
13:14	3/26/2024	Soil	1	BH02 - 4'	6						X		
10:57	3/26/2024	Soil	1	BH03 - 0'	7						X		
12:41	3/26/2024	Soil	1	BH03 - 2'	8						X		
11:50	3/26/2024	Soil	1	BH04 - 0'	9						X		
11:53	3/26/2024	Soil	1	BH04 - 1'	10						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dv.com, chamilton@ensolum.com, iestrella@ensolum.com

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: Israel Estrella

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	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
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 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.



envirotech

Envirotech Analytical Laboratory

Printed: 3/28/2024 10:03:06AM

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
 Phone: (505) 382-1211
 Email: ashley.giovento@wescominc.com

Date Received: 03/28/24 05:30
 Date Logged In: 03/27/24 16:16
 Due Date: 04/03/24 17:00 (4 day TAT)

Work Order ID: E403259
 Logged In By: Angelina Pineda

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
 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
 5. Were all samples received within holding time? Yes
- Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes
- 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 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 filtration 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 InstructionComments/Resolution

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

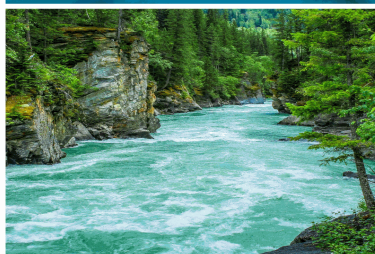
Date



envirotech In

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Tucker Draw 9-4-7H

Work Order: E403279

Job Number: 01058-0007

Received: 3/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 4/4/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Tucker Draw 9-4-7H
Workorder: E403279
Date Received: 3/29/2024 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2024 7:15:00AM, under the Project Name: Tucker Draw 9-4-7H.

The analytical test results summarized in this report with the Project Name: Tucker Draw 9-4-7H 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 regarding 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,

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/04/24 13:34

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 -0'	E403279-01A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH05 -2'	E403279-02A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH05 -4'	E403279-03A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH06 -0'	E403279-04A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH06 -3'	E403279-05A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH07 -0'	E403279-06A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH08 -0'	E403279-07A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH08 -2'	E403279-08A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH08 -4'	E403279-09A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:34:37PM
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BH05 -0'

E403279-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	88.3 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	99.2 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413126	
Chloride	974	40.0	2	03/29/24	03/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:34:37PM
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BH05 -2'

E403279-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	99.1 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413126	
Chloride	1370	20.0	1	03/29/24	03/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:34:37PM
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BH05 -4'

E403279-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	89.2 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	94.4 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413126	
Chloride	39.0	20.0	1	03/29/24	03/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:34:37PM
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BH06 -0'

E403279-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	89.8 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	95.4 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413126	
Chloride	662	20.0	1	03/29/24	03/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:34:37PM
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BH06 -3'

E403279-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
<i>Surrogate: n-Nonane</i>						
	97.2 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413126	
Chloride	319	20.0	1	03/29/24	03/29/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported: 4/4/2024 1:34:37PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

BH07 -0'

E403279-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	99.5 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413126	
Chloride	370	20.0	1	03/29/24	03/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:34:37PM
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BH08 -0'

E403279-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.3 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	3920	125	5	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	2520	250	5	04/01/24	04/03/24	
Surrogate: n-Nonane	102 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413126	
Chloride	2850	40.0	2	03/29/24	03/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:34:37PM
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BH08 -2'

E403279-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.0 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	103	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	83.3	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	96.6 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413126	
Chloride	2590	40.0	2	03/29/24	03/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Tucker Draw 9-4-7H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:34:37PM
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BH08 -4'

E403279-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.0 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	94.5 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413126	
Chloride	501	20.0	1	03/29/24	03/29/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 1:34:37PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413116-BLK1)

Prepared: 03/29/24 Analyzed: 04/02/24

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	7.43		8.00		92.9	70-130			

LCS (2413116-BS1)

Prepared: 03/29/24 Analyzed: 04/02/24

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	4.79	0.0250	5.00		95.8	70-130			
Toluene	4.90	0.0250	5.00		98.1	70-130			
o-Xylene	4.88	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.80	0.0500	10.0		98.0	70-130			
Total Xylenes	14.7	0.0250	15.0		97.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.3	70-130			

Matrix Spike (2413116-MS1)

Source: E403277-06

Prepared: 03/29/24 Analyzed: 04/02/24

Benzene	4.79	0.0250	5.00	ND	95.7	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.9	61-133			
Toluene	4.85	0.0250	5.00	ND	97.0	61-130			
o-Xylene	4.82	0.0250	5.00	ND	96.4	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2413116-MSD1)

Source: E403277-06

Prepared: 03/29/24 Analyzed: 04/02/24

Benzene	4.85	0.0250	5.00	ND	97.0	54-133	1.39	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.4	61-133	1.58	20	
Toluene	4.92	0.0250	5.00	ND	98.4	61-130	1.41	20	
o-Xylene	4.90	0.0250	5.00	ND	98.0	63-131	1.66	20	
p,m-Xylene	9.85	0.0500	10.0	ND	98.5	63-131	1.55	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.3	63-131	1.59	20	
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 1:34:37PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413116-BLK1) Prepared: 03/29/24 Analyzed: 04/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			

LCS (2413116-BS2) Prepared: 03/29/24 Analyzed: 04/02/24

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		84.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

Matrix Spike (2413116-MS2) Source: E403277-06 Prepared: 03/29/24 Analyzed: 04/02/24

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			

Matrix Spike Dup (2413116-MSD2) Source: E403277-06 Prepared: 03/29/24 Analyzed: 04/02/24

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.4	70-130	0.733	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 1:34:37PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2414006-BLK1)					Prepared: 04/01/24 Analyzed: 04/03/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.1		50.0		98.1	50-200			

LCS (2414006-BS1)					Prepared: 04/01/24 Analyzed: 04/03/24				
Diesel Range Organics (C10-C28)	312	25.0	250		125	38-132			
Surrogate: n-Nonane	52.2		50.0		104	50-200			

Matrix Spike (2414006-MS1)					Source: E403275-05		Prepared: 04/01/24 Analyzed: 04/03/24		
Diesel Range Organics (C10-C28)	354	25.0	250	53.5	120	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike Dup (2414006-MSD1)					Source: E403275-05		Prepared: 04/01/24 Analyzed: 04/03/24		
Diesel Range Organics (C10-C28)	380	25.0	250	53.5	130	38-132	6.99	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Tucker Draw 9-4-7H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 1:34:37PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2413126-BLK1)					Prepared: 03/29/24 Analyzed: 03/29/24				
Chloride	ND	20.0							
LCS (2413126-BS1)					Prepared: 03/29/24 Analyzed: 03/29/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2413126-MS1)					Source: E403279-05		Prepared: 03/29/24 Analyzed: 03/29/24		
Chloride	647	20.0	250	319	131	80-120			M1
Matrix Spike Dup (2413126-MSD1)					Source: E403279-05		Prepared: 03/29/24 Analyzed: 03/29/24		
Chloride	634	20.0	250	319	126	80-120	2.03	20	M1

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:	Tucker Draw 9-4-7H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/04/24 13:34

- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- 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.



Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy

Report due by:	Bill To	Lab Use Only	TAT	EPA Program
Project: Tucker Draw 9-4-7H	Attention: Jim Raley	Lab WO# E403279	1D 2D 3D Standard x	CWA SDWA
Project Manager: Ashley Giovengo	Address: 5315 Buena Vista Dr	Job Number 01058-0007		
Address: 3122 National Parks Hwy	City, State, Zip: Carlsbad NM, 88220	Analysis and Method		RCRA
City, State, Zip: Carlsbad NM, 88220	Phone: (575)689-7597			
Phone: 575-988-0055	Email: jim.raley@dv.com			
Email: agiovengo@ensolum.com				
Report due by:				

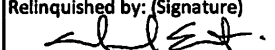
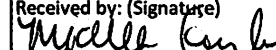
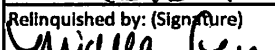
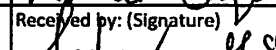
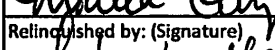
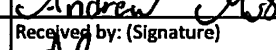
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	GDOC TX	Remarks
9:58	3/27/2024	Soil	1	BH05 - 0'	1						X		
11:12	3/27/2024	Soil	1	BH05 - 2'	2						X		
12:13	3/27/2024	Soil	1	BH05 - 4'	3						X		
10:05	3/27/2024	Soil	1	BH06 - 0'	4						X		
11:38	3/27/2024	Soil	1	BH06 - 3'	5						X		
10:19	3/27/2024	Soil	1	BH07 - 0'	6						X		
10:27	3/27/2024	Soil	1	BH08 - 0'	7						X		
11:40	3/27/2024	Soil	1	BH08 - 2'	8						X		
12:08	3/27/2024	Soil	1	BH08 - 4'	9						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dv.com, chamilton@ensolum.com, iestrella@ensolum.com

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: Israel Estrella

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	Lab Use Only
	3/28/24	11:05		3/28/24	1436	Received on ice: (Y) / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
	3/28/24	1700		3/28/24	1915	T1 T2 T3
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
	3/28/24	2400		3/29/24	0715	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 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.



envirotech

Envirotech Analytical Laboratory

Printed: 3/29/2024 12:43:03PM

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:	03/29/24 07:15	Work Order ID:	E403279
Phone:	(505) 382-1211	Date Logged In:	03/28/24 16:51	Logged In By:	Alexa Michaels
Email:	ashley.giovento@wescominc.com	Due Date:	04/04/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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 Yes

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 (pca 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 filtration 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.



APPENDIX E

Email Correspondence

From: [Raley, Jim](#)
To: RosaM.Romero@state.nm.us; [Bratcher, Michael, EMNRD](#)
Cc: [Ashley Giovengo](#); [Cole Burton](#)
Subject: Major Release Notification - Tucker Draw 9-4-7
Date: Sunday, February 25, 2024 5:25:42 AM

[**EXTERNAL EMAIL **]

NMOCD District II

On Saturday Feb 24th, we had approx 180 bbls of fluids released to lined secondary containment, due to failure of separator piping. Fluids were recovered by vac truck. A NOR and C-141 will be filed next week and liner inspection scheduled. No fluids were released off pad, notification is for volume only.

Jim Raley - Enviro Professional
Permian Basin - Devon Energy
575-689-7597

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

From: [Raley, Jim](#)
To: [Ashley Giovengo](#); [Enviro, OCD, EMNRD](#); [Morgan, Crisha A](#)
Cc: [Cole Burton](#); [Israel Estrella](#)
Subject: RE: [EXTERNAL] 48-hour Liner Inspection Notification - Tucker Draw 9-4-7H - Incident Number nAPP2406026361
Date: Thursday, February 29, 2024 3:48:38 PM
Attachments: [image005.png](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Submitted 2/29/2024

Jim Raley | Environmental Professional - Permian Basin
5315 Buena Vista Dr., Carlsbad, NM 88220
C: (575)689-7597 | jim.ralej@devon.com



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, February 29, 2024 1:20 PM
To: Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>; Morgan, Crisha A <camorgan@blm.gov>
Cc: Raley, Jim <Jim.Raley@devon.com>; Cole Burton <cburton@ensolum.com>; Israel Estrella <iestrella@ensolum.com>
Subject: [EXTERNAL] 48-hour Liner Inspection Notification - Tucker Draw 9-4-7H - Incident Number nAPP2406026361

Hello,

Please see the 48-hour Liner Inspection Notification for the Tucker Draw 9-4-7H. Please see the details below:

When: 03/05/2024 @ 09:00 am MST
Incident Number: nAPP2406026361
Where: A-16-26S-30E (32.0491921,-103.8787382)
Sq. Footage of Liner: 7,350 sq. ft

Additional Information: Separator Containment

Additional Instructions: 32.0491921,-103.8787382

Devon Energy Intends to upload this liner inspection notification onto the OCD web portal.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f 

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

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

QUESTIONS

Action 342404

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 342404
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406026361
Incident Name	NAPP2406026361 TUCKER DRAW 9-4-7H @ 30-015-44480
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-44480] TUCKER DRAW 9 4 FEDERAL COM #007H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Tucker Draw 9-4-7H
Date Release Discovered	02/26/2024
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 50 BBL Recovered: 50 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)	Not answered.

District I

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District III

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

District IV

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

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

QUESTIONS, Page 2

Action 342404

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	342404
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

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	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. 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: James Raley Title: EHS Professional Email: jim.raley@dmn.com Date: 05/09/2024
--	--

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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 342404

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	342404
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

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 51 and 75 (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	Between 1000 (ft.) and ½ (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 ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
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 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)	10000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	6020
GRO+DRO	(EPA SW-846 Method 8015M)	6020
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	01/01/2070
On what date will (or did) the final sampling or liner inspection occur	03/27/2024
On what date will (or was) the remediation complete(d)	01/01/2070
What is the estimated surface area (in square feet) that will be reclaimed	5752
What is the estimated volume (in cubic yards) that will be reclaimed	426
What is the estimated surface area (in square feet) that will be remediated	5752
What is the estimated volume (in cubic yards) that will be remediated	426

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, Page 4

Action 342404

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	342404
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	Not answered.
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	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360
OR is the off-site disposal site, to be used, an NMED facility	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)	Not answered.
<i>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>	
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: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 05/09/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 342404

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	342404
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Tank battery containment, tanks and process piping
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	5752
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	426
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-44480 TUCKER DRAW 9 4 FEDERAL COM #007H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
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: James Raley Title: EHS Professional Email: jim.raley@dmn.com Date: 05/09/2024

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QUESTIONS, Page 6
Action 342404

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 342404
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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 remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 342404

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 342404
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of BH01 and BH08 beneath tank battery is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time. Note, on pg. 2 of report groundwater was determined to be between 51 feet-100 feet so chlorides need to be remediated to 10,000 mg/kg, not the 20,000 mg/kg written in report.	5/10/2024