



October 25, 2024

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

**Re: Remediation Work Plan
LVP SWD #001
Incident Number nAPP2422877091
Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company, LP (Devon), has prepared this *Remediation Work Plan* (RWP) to document assessment and soil sampling activities performed at the LVP SWD #001 (Site) in Unit I, Section 04, Township 23 South, Range 28 East, in Eddy County, New Mexico (Figure 1).

The purpose of the Site assessment and soil sampling activities was to address impacted and waste-containing soil resulting from a release of produced water at the Site. Devon is submitting this RWP, describing analytical results from delineation soil sampling associated with Incident Number nAPP2422877091. Devon intends to complete the excavation/remediation of the release area and to conduct final confirmation sampling prior to submitting a *Closure or Deferral Request Report*.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.3330917°, -104.0850372°) and is associated with oil and gas exploration and production operations on Private Land.

On August 15, 2024, the inlet Enardo valve failed on a production tank, resulting in the release of 361 barrels (bbls) of produced water within the lined secondary containment; 360 bbls were recovered. The release impacted two on-pad areas totaling approximately 672 square feet in size. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) via the NMOCD web portal on August 15, 2024. The release was assigned Incident Number nAPP2422877091. A 48-hour advance notice of liner inspection was provided via web portal to the NMOCD on September 12, 2024. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and pressure washing and it was determined that the liner floor remained intact.

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 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the initial C-141 application subsection, Site Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 04415 POD7, with a depth to groundwater measurement of greater

than 38 feet below ground surface (bgs). The well is located approximately 0.3 miles west of the Site. All wells used to establish depth to groundwater are depicted on Figure 1 and the referenced well records are included in Appendix A. The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 720 feet 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 potential karst designation area). Site receptors are identified in 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

Beginning on August 22, 2024, Ensolum personnel were onsite to evaluate the release extent. Preliminary assessment soil sample (SS02) was collected at ground surface to verify the lateral extent of the release area. On September 12, 2024, Ensolum personnel returned to the Site to continue delineation sampling activities. Four additional assessment soil samples (SS02 through SS04 and SS10) were collected at ground surface and nine lateral assessment soil samples (SS05 through SS08, SS08A, SS08B, SS10A and SS10B) were collected at ground surface and 1-foot bgs. Discrete soil samples were field screened for chloride utilizing Hach® chloride QuanTab® test. The delineation soil sample locations are depicted on Figure 2. A photographic log of Site assessment and delineation soil sampling activities can be found in Appendix B.

On September 20, 2024, Ensolum personnel returned to the Site to conduct a liner integrity inspection. The lined secondary containment was found to be intact; however, two small areas on-pad were impacted either by overspray from the release event or by gaps in the containment wall. Ensolum personnel advanced three boreholes (BH01 through BH03) within the release extents on-pad. Borehole BH01 was advanced via hand auger to a depth of 2 feet bgs before hitting refusal and borehole BH02 was advanced to a depth of 1.5 feet bgs before hitting refusal; boreholes BH01 and BH02 were collected from the release extent on the north side of the lined secondary containment. Borehole BH03 was advanced in the release extent on the south side of the lined secondary containment via hand auger to a depth of 2 feet bgs before hitting refusal. Discrete delineation soil samples from the boreholes were field screened in the same manner as previously described. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

Ensolum personnel returned to the Site on October 10, 2024, with a gas-powered 41-millimeter (mm) Shaw Backpack Portable Coring Drill Kit to advance boreholes BH01 through BH03. Borehole BH01 was advanced to a depth of 4 feet bgs, borehole BH02 was advanced to a depth of 3 feet bgs, and borehole BH03 was advanced to a depth of 4.5 feet bgs. Lateral assessment soil samples SS08A, SS10, and SS10A were advanced to a terminal depth of 3 feet bgs.

The delineation 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 Laboratory Analysis (Envirotech) in Farmington, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following

United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS04) collected at ground surface were in compliance with the strictest Closure Criteria per NMOCD Table I and with the Site Closure Criteria. Laboratory analytical results for lateral delineation soil samples (SS05 through SS08, SS08B, SS09, and SS10B) were all in compliance with the Site Closure Criteria at ground surface and 1-foot bgs. Laboratory analytical results for lateral delineation soil sample SS10 was in compliance with the Site Closure Criteria at 2 feet bgs. Laboratory analytical results for lateral delineation soil sample location SS08A exceeded the Site Closure Criteria from ground surface to 3 feet bgs and lateral delineation soil sample location SS10A exceeded the Site Closure Criteria at 1-foot and 3 feet bgs.

Laboratory analytical results for boreholes BH01 through BH03 exceeded the Site Closure Criteria at a depth of 2 feet bgs in BH01, 3 feet bgs in BH02 and 3 feet bgs in BH03. Laboratory analytical results indicated that COC concentrations were below the Site Closure Criteria in boreholes BH01 and BH03 at 4 feet bgs. Laboratory analytical results for delineation soil samples are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The results of the delineation soil sampling suggest soil containing elevated concentrations of chloride exist in the on-pad release areas which measure approximately 789 square feet on the north side of the lined secondary containment and approximately 231 square feet on the south side of the lined secondary containment. Devon will complete excavation of the on-pad release extents to a depth of 4 feet bgs. Sample location SS08 and SS10A will require additional delineation sampling in accordance with NMOCD Table I. Devon proposed excavation of impacted soil and Ensolum estimates approximately 151 cubic yards of soil will be excavated from the impacted areas.

Devon proposed to complete the following remediation activities:

- Complete vertical delineation near samples location SS08 and SS10A to the strictest Closure Criteria per NMOCD Table I.
- Excavation of impacted soil on the south side of the caliche pad. The excavation will proceed laterally and vertically until sidewall and floor samples confirm all COC concentrations are compliant with the strictest Closure Criteria per NMOCD Table I. The estimated excavation extent is shown on Figure 3.
- Excavation of the impacted area on-pad until laboratory analytical results indicate the floor of the excavation will be in compliance with the strictest Closure Criteria. The on-pad excavation will be backfilled with locally sourced caliche pad material.
- An estimated 151 cubic yards of impacted soil will be excavated. The excavated soil will be transferred to an approved landfill for disposal.

Devon will complete the proposed soil sampling activities within 180 days of the date of approval of this RWP by the NMOCD.

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

LVP SWD #001



Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "Ashley Giovengo".

Ashley Giovengo
Senior Scientist

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

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

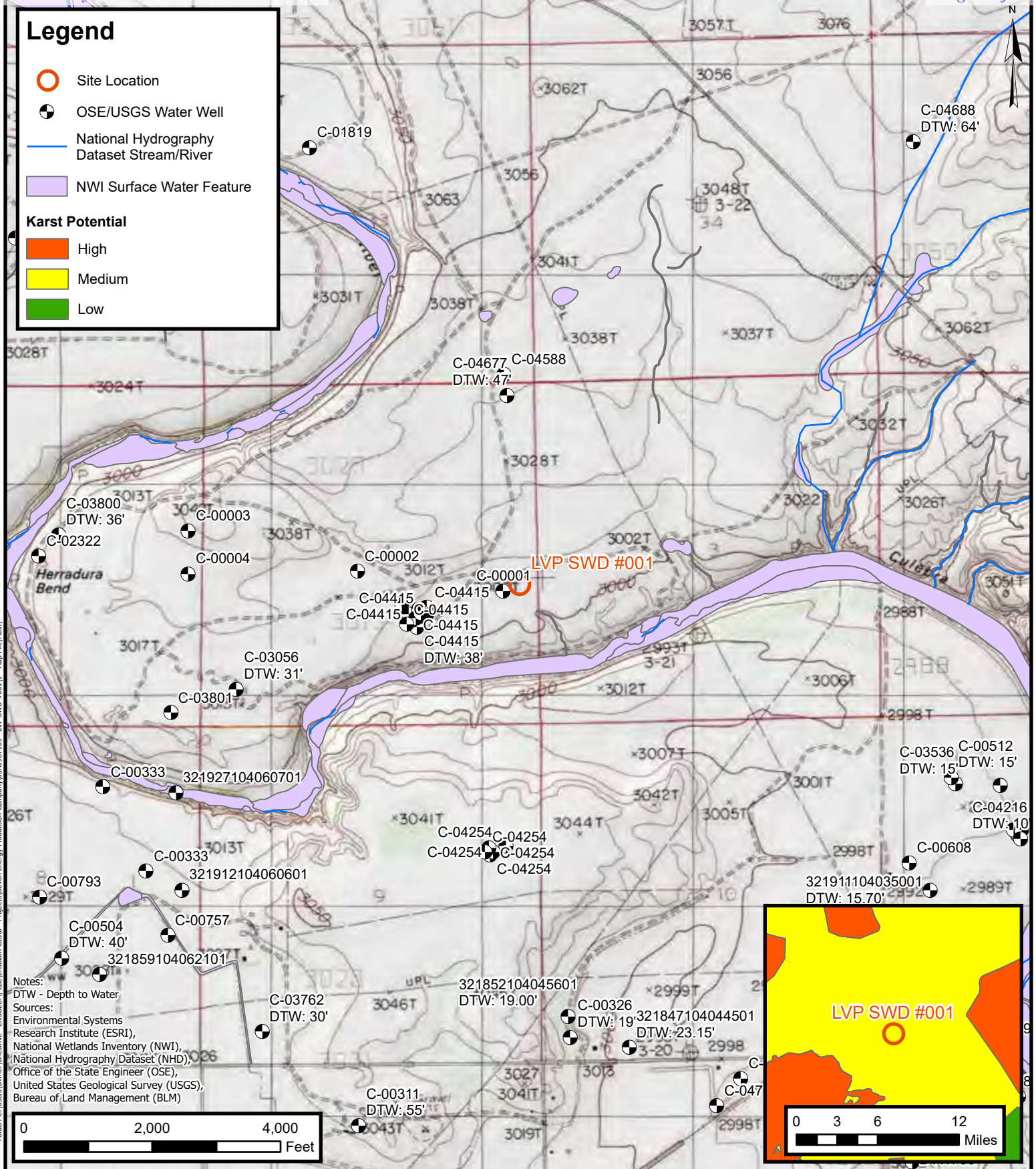
cc: Jim Raley, Devon

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Dig Plan
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Appendix A	Well Log and Record
Appendix B	Photographic Log
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications



FIGURES

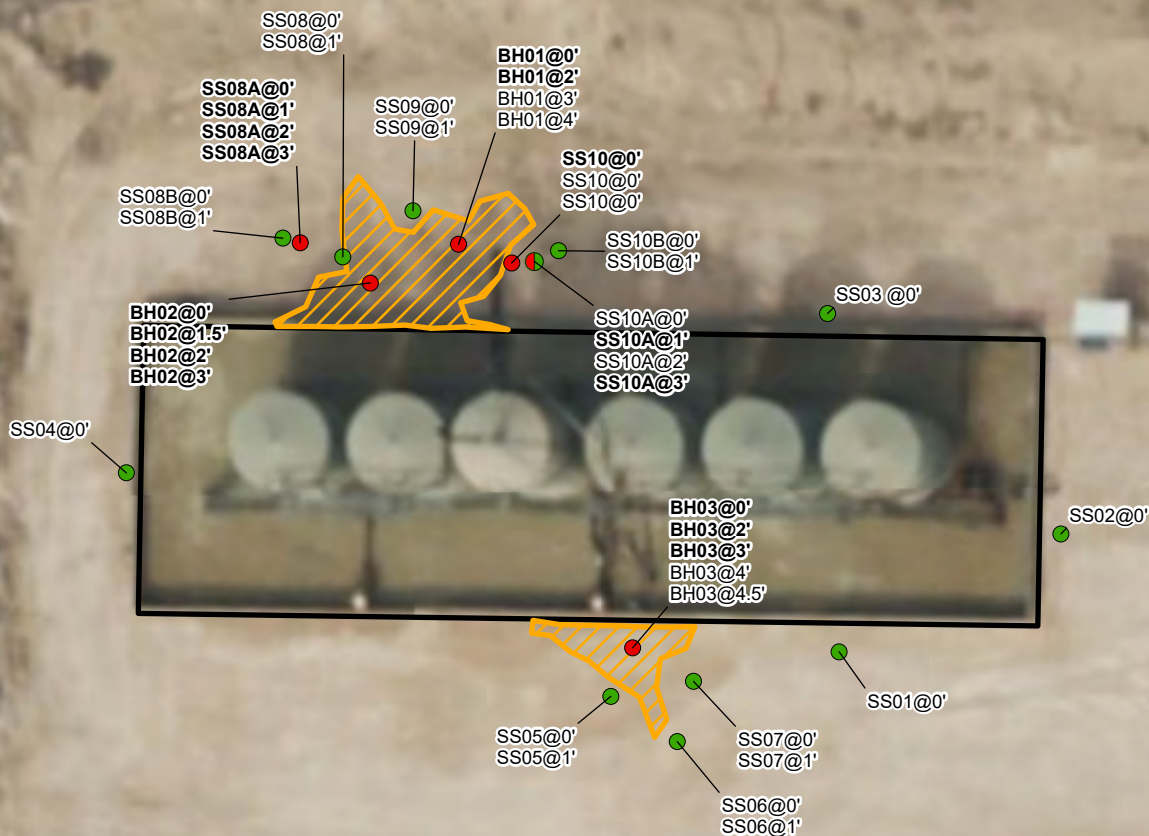


Site Receptor Map
Devon Energy Production Company, LP
LVP SWD #001
Incident Number: nAPP2422877091
Unit I, Section 04, T 23S, R 28E
Eddy County, New Mexico

FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- ● Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Liner Containment Area
- Release Extent



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

0 5 10 20 30 40
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

Devon Energy Production Company, LP

LVP SWD #001

Incident Number: nAPP2422877091




Unit I, Section 04, T 23S, R 28E

Eddy County, New Mexico

FIGURE

2

Legend

-  Liner Containment Area
-  4' Excavation (1)
-  4' Excavation (2)



0 5 10 20 30 40
Feet

Sources: Environmental Systems Research Institute (ESRI)



Excavation Dig Plan

Devon Energy Production Company, LP

LVP SWD #001

Incident Number: nAPP2422877091

Unit I, Sec 04, T23S, R28E

Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
LVP SWD #001
Devon Energy Production Company, LP
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	388
SS02	8/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	86.6
SS03	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	40.9
SS04	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	139
SS05	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	141
SS05	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	242
SS06	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	40.8
SS06	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	329
SS07	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	122
SS07	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	345
SS08	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	215
SS08	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	533
SS08A	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	664
SS08A	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	637
SS08A	10/10/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	708
SS08A	10/10/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	830
SS08B	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	194
SS08B	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	522
SS09	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS09	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	227
SS10	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	816
SS10	10/10/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	522
SS10	10/10/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	321
SS10A	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	333
SS10A	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	929
SS10A	10/10/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	319
SS10A	10/10/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	673
SS10B	9/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS10B	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	461



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 LVP SWD #001
 Devon Energy Production Company, LP
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
BH01	9/20/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	13,600
BH01	9/20/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,520
BH01	10/10/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	409
BH01	10/10/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	189
BH02	9/20/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	15,700
BH02	9/20/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	10,400
BH02	10/10/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,330
BH02	10/10/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,200
BH03	9/20/2024	0	<0.0250	<0.0500	<20.0	90.7	103	90.7	193.7	1,280
BH03	9/20/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,740
BH03	10/10/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	871
BH03	10/10/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	336
BH03	10/10/2024	4.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	226

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



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

X

Y

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04415 POD7	3	1	4	04	23S	28E	585628	3577518

x

Driller License:

1186

Driller Company:

NOT FOR HIRE

Driller Name:

HAMMER, RODNEY S.WARDENER

Drill Start Date:

07/15/2021

Drill Finish Date:

07/16/2021

Plug Date:

07/16/2021

Log File Date:

10/05/2021

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

2.00

Depth Well:

55 feet

Depth Water:

38 feet

x

Water Bearing Stratifications:

Top

Bottom

Description

0

55

Shale/Mudstone/Siltstone

x

Casing Perforations:

Top

Bottom

38

43

x

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



APPENDIX B

Photographic Log



Photographic Log

Devon Energy Production Company, LP

LVP SWD #001

Incident Number: nAPP2422877091



Photograph 1

Date: 08/15/2024

Description: Release Extent

View: East



Photograph 2

Date: 08/15/2024

Description: Release Extent

View: Northeast



Photograph 3

Date: 08/22/2024

Description: Liner Inspection

View: West



Photograph 4

Date: 08/22/2024

Description: Liner Inspection

View: West



Photographic Log

Devon Energy Production Company, LP

LVP SWD #001

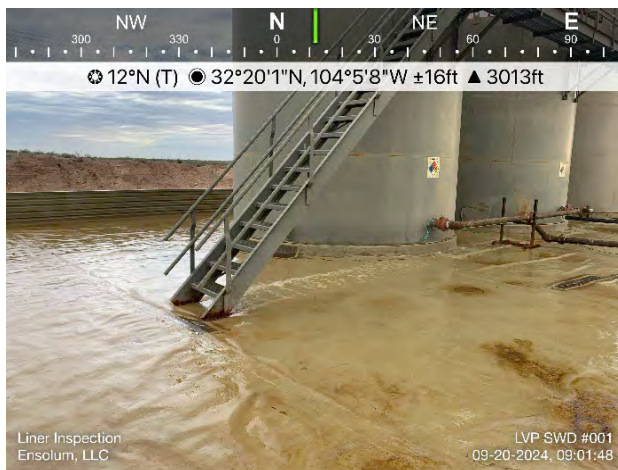
Incident Number: nAPP2422877091



Photograph 5 Date: 09/12/2024
Description: Lateral Delineation (SS02)
View: West



Photograph 6 Date: 09/12/2024
Description: Lateral Delineation (SS07)
View: Northwest



Photograph 7 Date: 09/20/2024
Description: Liner Inspection
View: North



Photograph 8 Date: 09/20/2024
Description: Liner Inspection
View: East

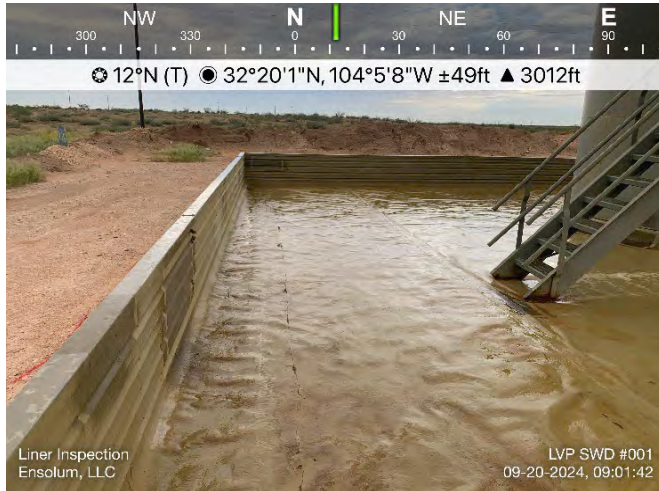


Photographic Log

Devon Energy Production Company, LP

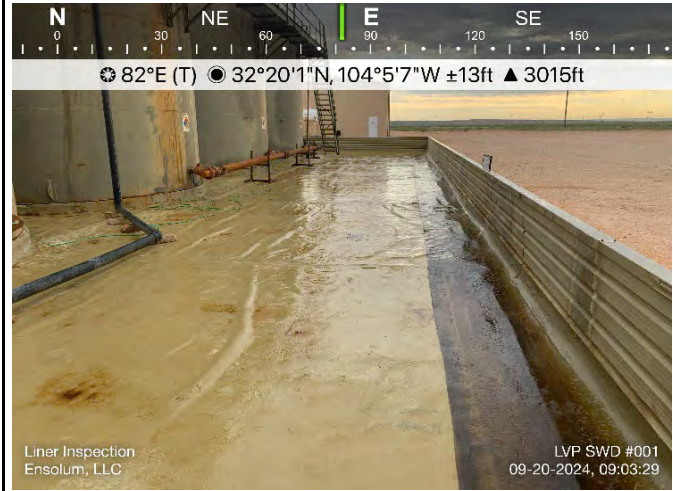
LVP SWD #001

Incident Number: nAPP2422877091



Photograph 9
Description: Liner Inspection
View: North

Date: 09/20/2024



Photograph 10
Description: Liner Inspection
View: East

Date: 09/20/2024



Photograph 11
Description: Liner Inspection
View: West

Date: 09/20/2024



Photograph 12
Description: Liner Inspection
View: Southeast

Date: 09/20/2024



Photographic Log

Devon Energy Production Company, LP

LVP SWD #001

Incident Number: nAPP2422877091

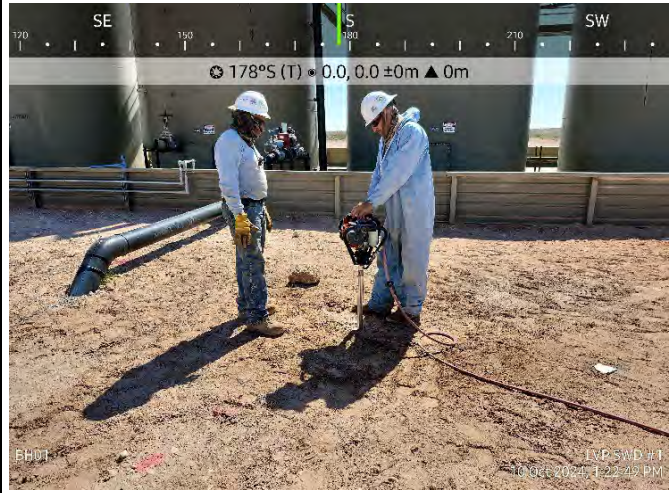


Photograph 13

Date: 09/20/2024

Description: Delineation (BH02)

View: South

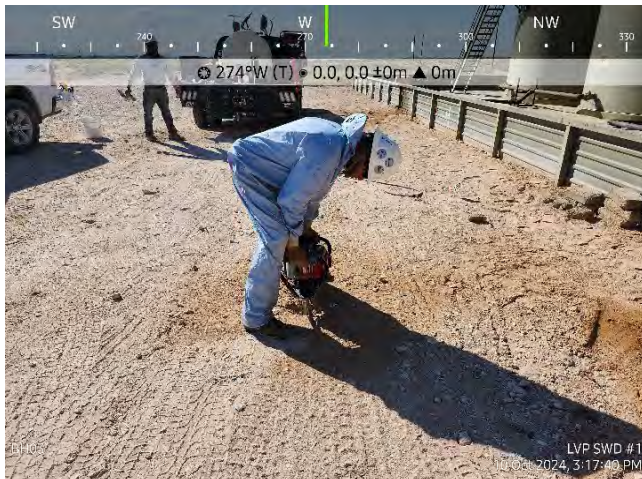


Photograph 14

Date: 10/10/2024

Description: Vertical Delineation (BH01)

View: South

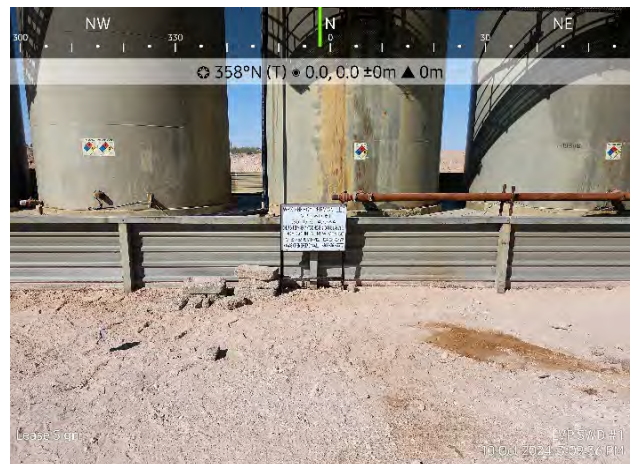


Photograph 15

Date: 10/10/2024

Description: Vertical Delineation (BH03)

View: West



Photograph 16

Date: 10/10/2024


Description: Lease Signage


View: North





APPENDIX C


Lithologic Soil Sampling Logs


								Sample Name: SS08A		Date: 10/10/2024	
								Site Name: LVP SWD #001			
								Incident Number: nAPP2422877091			
								Job Number: 03A1987140			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Backpack Drill	
Coordinates: 32.333395, -104.085558								Hole Diameter: 1.5"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	767		N	SS08A	0	0	CCHE	Caliche Pad			
D	840		N	SS08A	1	1		Caliche - White to v/ light pink, mostly fine to coarse with some small to large gravel, Dry, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp			
D			N	SS08A	2	2					
D			N	SS08A	3	3	QTZ	Quartz Rock - Very strong, white to grey w/ trace brown, fine grained, Massive, Fresh, Compentent, Unfractured			
Total Depth @ 3 ft bgs.											

								Sample Name: SS10		Date: 10/10/2024	
								Site Name: LVP SWD #001			
								Incident Number: nAPP2422877091			
								Job Number: 03A1987140			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Backpack Drill	
Coordinates: 32.333947, -104.085451								Hole Diameter: 1.5"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1,069		N	SS10	0	0	CCHE	Caliche Pad			
D			N	SS10	2	2		Caliche - White to v/ light pink, mostly fine to coarse with some small to large gravel, Dry, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp			
D			N	SS10	3	3	QTZ	Quartz Rock - Very strong, white to grey w/ trace brown, fine grained, Massive, Fresh, Compentent, Unfractured			
Total Depth @ 3 ft bgs.											

								Sample Name: SS10A		Date: 10/10/2024	
								Site Name: LVP SWD #001			
								Incident Number: nAPP2422877091			
								Job Number: 03A1987140			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Backpack Drill	
Coordinates: 32.333948, -104.085440								Hole Diameter: 1.5"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	442		N	SS10A	0	0	CCHE	Caliche Pad			
D	1,069		N	SS10A	1	1		Caliche - White to v/ light pink, mostly fine to coarse with some small to large gravel, Dry, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp			
M			N	SS10A	2	2		SM	Silty Sand w/ Trace Gravel - Med to dark brown, fine to medium grained with trace small gravel, Moist, Non-Plastic, Noncohesive,		
D			N	SS10A	3	3	QTZ	Quartz Rock - Very strong, white to grey w/ trace brown, fine grained, Massive, Fresh, Competent, Unfractured			
Total Depth @ 3 ft bgs.											

								Sample Name: BH01		Date: 10/10/2024	
								Site Name: LVP SWD #001			
								Incident Number: nAPP2422877091			
								Job Number: 03A1987140			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Backpack Drill	
Coordinates: 32.333956, -104.085478								Hole Diameter: 1.5"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	>3,388		Y	BH01	0	0	CCHE	Caliche Pad			
D	>3,388		N	BH01	1	1		Caliche - White to v/ light pink, mostly fine to coarse with some small to large gravel, Dry, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp			
D	1,159		N	BH01	2	2					
D			N	BH01	3	3	QTZ	Quartz Rock - Very strong, white to grey w/ trace brown, fine grained, Massive, Fresh, Compentent, Unfractured			
D			N	BH01	4	4					
Total Depth @ 4 ft bgs.											

								Sample Name: BH02		Date: 10/10/2024	
								Site Name: LVP SWD #001			
								Incident Number: nAPP2422877091			
								Job Number: 03A1987140			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Backpack Drill	
Coordinates: 32.333939, -104.085523								Hole Diameter: 1.5"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	19,241		Y	BH02	0	0	CCHE	Caliche Pad			
D	12,611		N	BH02	1	1		Caliche - White to v/ light pink, mostly fine to coarse with some small to large gravel, Dry, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp			
D	14,806		N	BH02	1.5						
D			N	BH02	2	2					
D			N	BH02	3	3	QTZ	Quartz Rock - Very strong, white to grey w/ trace brown, fine grained, Massive, Fresh, Compentent, Unfractured			
Total Depth @ 3 ft BGS											

								Sample Name: BH03		Date: 10/10/2024	
								Site Name: LVP SWD #001			
								Incident Number: nAPP2422877091			
								Job Number: 03A1987140			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Backpack Drill	
Coordinates: 32.333782, -104.085392								Hole Diameter: 1.5"		Total Depth:	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1,982		Y	BH03	0	0	CCHE	Caliche Pad			
D	677		N	BH03	1	1		Caliche - White to v/ light pink, mostly fine to coarse with some small to large gravel, Dry, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp			
D	1,254		N	BH03	2	2					
D			N	BH03	3	3	QTZ	Quartz Rock - Very strong, white to grey w/ trace brown, fine grained, Massive, Fresh, Compentent, Unfractured			
D			N	BH03	4	4					
D			N	BH03	4.5						
Total Depth @ 4.5 ft bgs.											

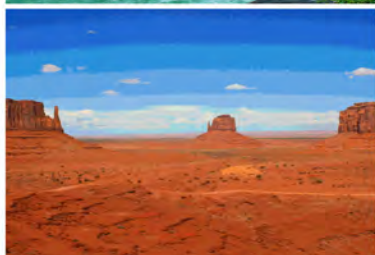


APPENDIX D

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: LVP SWD #001

Work Order: E408205

Job Number: 01058-0007

Received: 8/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/27/24

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: 8/27/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: LVP SWD #001
Workorder: E408205
Date Received: 8/26/2024 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/26/2024 7:00:00AM, under the Project Name: LVP SWD #001.

The analytical test results summarized in this report with the Project Name: LVP SWD #001 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
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS02 - 0'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/27/24 16:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02 - 0'	E408205-01A	Solid	08/22/24	08/26/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/27/2024 4:42:08PM
---	--	----------------------------------

SS02 - 0'

E408205-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2435006	
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/26/24	08/26/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	08/26/24	08/26/24	
Surrogate: Toluene-d8		107 %	70-130	08/26/24	08/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2435006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/26/24	08/26/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	08/26/24	08/26/24	
Surrogate: Toluene-d8		107 %	70-130	08/26/24	08/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2435002	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/27/24	
Surrogate: n-Nonane		84.4 %	50-200	08/26/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2435008	
Chloride	86.6	20.0	1	08/26/24	08/26/24	



Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/27/2024 4:42:08PM

Volatile Organic Compounds by EPA 8260B

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 (2435006-BLK1) Prepared: 08/26/24 Analyzed: 08/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2435006-BS1) Prepared: 08/26/24 Analyzed: 08/26/24

Benzene	2.33	0.0250	2.50		93.3	70-130			
Ethylbenzene	2.38	0.0250	2.50		95.2	70-130			
Toluene	2.39	0.0250	2.50		95.5	70-130			
o-Xylene	2.24	0.0250	2.50		89.8	70-130			
p,m-Xylene	4.53	0.0500	5.00		90.5	70-130			
Total Xylenes	6.77	0.0250	7.50		90.3	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike (2435006-MS1) Source: E408205-01 Prepared: 08/26/24 Analyzed: 08/26/24

Benzene	2.28	0.0250	2.50	ND	91.2	48-131			
Ethylbenzene	2.32	0.0250	2.50	ND	92.8	45-135			
Toluene	2.32	0.0250	2.50	ND	92.6	48-130			
o-Xylene	2.24	0.0250	2.50	ND	89.8	43-135			
p,m-Xylene	4.54	0.0500	5.00	ND	90.9	43-135			
Total Xylenes	6.79	0.0250	7.50	ND	90.5	43-135			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

Matrix Spike Dup (2435006-MSD1) Source: E408205-01 Prepared: 08/26/24 Analyzed: 08/26/24

Benzene	2.28	0.0250	2.50	ND	91.3	48-131	0.110	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.2	45-135	1.52	27	
Toluene	2.35	0.0250	2.50	ND	93.9	48-130	1.35	24	
o-Xylene	2.30	0.0250	2.50	ND	92.1	43-135	2.62	27	
p,m-Xylene	4.59	0.0500	5.00	ND	91.8	43-135	1.05	27	
Total Xylenes	6.89	0.0250	7.50	ND	91.9	43-135	1.57	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/27/2024 4:42:08PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2435006-BLK1) Prepared: 08/26/24 Analyzed: 08/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2435006-BS2) Prepared: 08/26/24 Analyzed: 08/26/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike (2435006-MS2) Source: E408205-01 Prepared: 08/26/24 Analyzed: 08/26/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike Dup (2435006-MSD2) Source: E408205-01 Prepared: 08/26/24 Analyzed: 08/26/24

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	0.705	20	
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/27/2024 4:42:08PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2435002-BLK1)					Prepared: 08/26/24 Analyzed: 08/26/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	36.4		50.0		72.7	50-200			

LCS (2435002-BS1)					Prepared: 08/26/24 Analyzed: 08/26/24				
Diesel Range Organics (C10-C28)	187	25.0	250		74.7	38-132			
Surrogate: n-Nonane	41.6		50.0		83.2	50-200			

Matrix Spike (2435002-MS1)					Source: E408201-01		Prepared: 08/26/24 Analyzed: 08/26/24		
Diesel Range Organics (C10-C28)	181	25.0	250	ND	72.4	38-132			
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			

Matrix Spike Dup (2435002-MSD1)					Source: E408201-01		Prepared: 08/26/24 Analyzed: 08/26/24		
Diesel Range Organics (C10-C28)	191	25.0	250	ND	76.4	38-132	5.44	20	
Surrogate: n-Nonane	41.7		50.0		83.4	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/27/2024 4:42:08PM

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 (2435008-BLK1)					Prepared: 08/26/24 Analyzed: 08/26/24				
Chloride	ND	20.0							
LCS (2435008-BS1)					Prepared: 08/26/24 Analyzed: 08/26/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435008-MS1)					Source: E408202-02		Prepared: 08/26/24 Analyzed: 08/26/24		
Chloride	297	20.0	250	38.2	103	80-120			
Matrix Spike Dup (2435008-MSD1)					Source: E408202-02		Prepared: 08/26/24 Analyzed: 08/26/24		
Chloride	294	20.0	250	38.2	102	80-120	0.877	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:	LVP SWD #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/27/24 16:42

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client Information				Invoice Information				Lab Use Only				TAT				State												
Client: Devon				Company: Devon				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX									
Project: LVP SWD #001				Address: 205 E Bender Road #150				E408205		01058-0007					X	X												
Project Manager: Ashley Gioveno				City, State, Zip: Hobbs NM, 88240				Analysis and Method												EPA Program								
Address: 3122 National Parks Hwy				Phone: (575)748-1838																SDWA			CWA			RCRA		
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dv.com																Compliance			Y			or		
Phone: 575-988-0055				Miscellaneous: Dale Woodall																PWSID #								
Email: agioveno@ensolum.com																												
Sample Information																		Remarks										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals													
11:24	8/22/24	Soil	1	SS02 - O			1						X															
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, dale.woodall@dv.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																												
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																												
Sampled by: <u>Brian Bowman</u>																												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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																				
<u>[Signature]</u>		8/23/24	10:15	<u>Michelle Gonzales</u>		8-23-24	1015																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																					
<u>Michelle Gonzales</u>		8-23-24	1640	<u>[Signature]</u>		8-23-24	1700																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																				
<u>[Signature]</u>		8-23-24	2315	<u>Highly R Heese</u>		8-26-24	0700																					
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																												

Envirotech Analytical Laboratory

Printed: 8/26/2024 8:17:09AM

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:	08/26/24 07:00	Work Order ID:	E408205
Phone:	(505) 382-1211	Date Logged In:	08/23/24 16:32	Logged In By:	Noe Soto
Email:	ashley.giovengo@wescominc.com	Due Date:	08/30/24 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 (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab 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.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: LVP SWD #1

Work Order: E409120

Job Number: 01058-0007

Received: 9/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/20/24

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: 9/20/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: LVP SWD #1
Workorder: E409120
Date Received: 9/16/2024 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/16/2024 7:30:00AM, under the Project Name: LVP SWD #1.

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

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
SS01 - 0'	6
SS03 - 0'	7
SS04 - 0'	8
SS05 - 0'	9
SS06 - 0'	10
SS07 - 0'	11
SS08 - 0'	12
SS09 - 0'	13
SS10 - 0'	14
SS10 - 0'	15
SS05 - 1'	16
SS06 - 1'	17
SS07 - 1'	18
SS08 - 1'	19
SS09 - 1'	20
SS10 - 1'	21
SS08A - 0'	22
SS08A - 1'	23
SS10A - 0'	24
SS10A - 1'	25

Table of Contents (continued)

SS08B - 0'	26
SS08B - 1'	27
QC Summary Data	28
QC - Volatile Organics by EPA 8021B	28
QC - Nonhalogenated Organics by EPA 8015D - GRO	31
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	34
QC - Anions by EPA 300.0/9056A	37
Definitions and Notes	40
Chain of Custody etc.	41

Sample Summary

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/20/24 14:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E409120-01A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS03 - 0'	E409120-02A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS04 - 0'	E409120-03A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS05 - 0'	E409120-04A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS06 - 0'	E409120-05A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS07 - 0'	E409120-06A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS08 - 0'	E409120-07A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS09 - 0'	E409120-08A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS10 - 0'	E409120-09A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS10 - 0'	E409120-10A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS05 - 1'	E409120-11A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS06 - 1'	E409120-12A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS07 - 1'	E409120-13A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS08 - 1'	E409120-14A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS09 - 1'	E409120-15A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS10 - 1'	E409120-16A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS08A - 0'	E409120-17A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS08A - 1'	E409120-18A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS10A - 0'	E409120-19A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS10A - 1'	E409120-20A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS08B - 0'	E409120-21A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SS08B - 1'	E409120-22A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

SS01 - 0'

E409120-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	89.7 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.6 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
Surrogate: n-Nonane	71.5 %	50-200		09/14/24	09/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	388	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS03 - 0'

E409120-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.1 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
	74.1 %	50-200		09/14/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	40.9	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS04 - 0'

E409120-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
Surrogate: n-Nonane	82.5 %	50-200		09/14/24	09/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	139	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS05 - 0'

E409120-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.0 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
<i>Surrogate: n-Nonane</i>						
	79.5 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	141	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS06 - 0'

E409120-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.9 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
Surrogate: n-Nonane	73.2 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	40.8	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS07 - 0'

E409120-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
<i>Surrogate: n-Nonane</i>						
	78.1 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	122	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS08 - 0'

E409120-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.1 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.1 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
<i>Surrogate: n-Nonane</i>						
	77.7 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	215	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS09 - 0'

E409120-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	87.8 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
Surrogate: n-Nonane	83.0 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	ND	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: LVP SWD #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2024 2:36:58PM

SS10 - 0'

E409120-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.1 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.3 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	93.9 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438052	
Chloride	816	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

SS10 - 0'

E409120-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	88.1 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.2 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
Surrogate: n-Nonane	79.5 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	333	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

SS05 - 1'

E409120-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	87.7 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.8 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
Surrogate: n-Nonane	78.8 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	242	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS06 - 1'

E409120-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	89.1 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.3 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
Surrogate: n-Nonane	82.3 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	329	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

SS07 - 1'

E409120-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.0 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
Surrogate: n-Nonane	81.2 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	345	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS08 - 1'

E409120-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.0 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
<i>Surrogate: n-Nonane</i>						
	76.9 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	533	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS09 - 1'

E409120-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID		89.6 %	70-130	09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.6 %	70-130	09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
Surrogate: n-Nonane		77.8 %	50-200	09/14/24	09/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	227	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS10 - 1'

E409120-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.3 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
<i>Surrogate: n-Nonane</i>						
	77.4 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	929	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS08A - 0'
E409120-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.8 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.5 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
<i>Surrogate: n-Nonane</i>						
	80.6 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	664	40.0	2	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS08A - 1'
E409120-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	88.8 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
Surrogate: n-Nonane	88.8 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	637	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS10A - 0'
E409120-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.0 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
<i>Surrogate: n-Nonane</i>						
	77.8 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	ND	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: LVP SWD #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2024 2:36:58PM

SS10A - 1'

E409120-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Benzene	ND	0.0250	1	09/16/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/18/24	
Toluene	ND	0.0250	1	09/16/24	09/18/24	
o-Xylene	ND	0.0250	1	09/16/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		09/16/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437108	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/18/24	
<i>Surrogate: n-Nonane</i>						
	86.5 %	50-200		09/14/24	09/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438026	
Chloride	461	20.0	1	09/17/24	09/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2024 2:36:58PM
---	--	----------------------------------

SS08B - 0'
E409120-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438002	
Benzene	ND	0.0250	1	09/16/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/16/24	
Toluene	ND	0.0250	1	09/16/24	09/16/24	
o-Xylene	ND	0.0250	1	09/16/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/16/24	
Surrogate: 4-Bromochlorobenzene-PID	99.0 %	70-130		09/16/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		09/16/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437107	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
Surrogate: n-Nonane	78.3 %	50-200		09/14/24	09/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	194	20.0	1	09/16/24	09/17/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: LVP SWD #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2024 2:36:58PM

SS08B - 1'

E409120-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438002
Benzene	ND	0.0250	1	09/16/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/16/24	
Toluene	ND	0.0250	1	09/16/24	09/16/24	
o-Xylene	ND	0.0250	1	09/16/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/16/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438002
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.9 %	70-130	09/16/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437107
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
		87.1 %	50-200	09/14/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2438019
Chloride	522	20.0	1	09/16/24	09/17/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Volatile Organics by EPA 8021B

Analyst: CG

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

Blank (2438002-BLK1) Prepared: 09/16/24 Analyzed: 09/16/24

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	8.02		8.00		100	70-130			

LCS (2438002-BS1) Prepared: 09/16/24 Analyzed: 09/16/24

Benzene	5.67	0.0250	5.00		113	70-130			
Ethylbenzene	5.46	0.0250	5.00		109	70-130			
Toluene	5.58	0.0250	5.00		112	70-130			
o-Xylene	5.45	0.0250	5.00		109	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.6	0.0250	15.0		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			

Matrix Spike (2438002-MS1) Source: E409109-06 Prepared: 09/16/24 Analyzed: 09/16/24

Benzene	5.12	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.92	0.0250	5.00	ND	98.4	61-133			
Toluene	5.04	0.0250	5.00	ND	101	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			

Matrix Spike Dup (2438002-MSD1) Source: E409109-06 Prepared: 09/16/24 Analyzed: 09/16/24

Benzene	5.35	0.0250	5.00	ND	107	54-133	4.47	20	
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133	4.66	20	
Toluene	5.27	0.0250	5.00	ND	105	61-130	4.53	20	
o-Xylene	5.15	0.0250	5.00	ND	103	63-131	4.90	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	4.69	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	4.76	20	
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Volatile Organics by EPA 8021B

Analyst: CG

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

Blank (2438009-BLK1) Prepared: 09/16/24 Analyzed: 09/18/24

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	6.90		8.00		86.2	70-130			

LCS (2438009-BS1) Prepared: 09/16/24 Analyzed: 09/19/24

Benzene	4.96	0.0250	5.00		99.1	70-130			
Ethylbenzene	4.83	0.0250	5.00		96.5	70-130			
Toluene	4.92	0.0250	5.00		98.3	70-130			
o-Xylene	4.81	0.0250	5.00		96.1	70-130			
p,m-Xylene	9.78	0.0500	10.0		97.8	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			

Matrix Spike (2438009-MS1) Source: E409120-06 Prepared: 09/16/24 Analyzed: 09/18/24

Benzene	4.00	0.0250	5.00	ND	79.9	54-133			
Ethylbenzene	3.83	0.0250	5.00	ND	76.6	61-133			
Toluene	3.93	0.0250	5.00	ND	78.6	61-130			
o-Xylene	3.81	0.0250	5.00	ND	76.1	63-131			
p,m-Xylene	7.81	0.0500	10.0	ND	78.1	63-131			
Total Xylenes	11.6	0.0250	15.0	ND	77.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			

Matrix Spike Dup (2438009-MSD1) Source: E409120-06 Prepared: 09/16/24 Analyzed: 09/18/24

Benzene	4.58	0.0250	5.00	ND	91.5	54-133	13.5	20	
Ethylbenzene	4.40	0.0250	5.00	ND	88.1	61-133	13.9	20	
Toluene	4.50	0.0250	5.00	ND	90.0	61-130	13.5	20	
o-Xylene	4.38	0.0250	5.00	ND	87.5	63-131	14.0	20	
p,m-Xylene	8.96	0.0500	10.0	ND	89.6	63-131	13.7	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.9	63-131	13.8	20	
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Volatile Organics by EPA 8021B

Analyst: CG

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

Blank (2438056-BLK1) Prepared: 09/18/24 Analyzed: 09/19/24

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	6.94		8.00		86.7	70-130			

LCS (2438056-BS1) Prepared: 09/18/24 Analyzed: 09/19/24

Benzene	4.73	0.0250	5.00		94.7	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.72	0.0250	5.00		94.4	70-130			
o-Xylene	4.61	0.0250	5.00		92.2	70-130			
p,m-Xylene	9.44	0.0500	10.0		94.4	70-130			
Total Xylenes	14.1	0.0250	15.0		93.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.9	70-130			

Matrix Spike (2438056-MS1) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Benzene	4.60	0.0250	5.00	ND	92.0	54-133			
Ethylbenzene	4.51	0.0250	5.00	ND	90.2	61-133			
Toluene	4.59	0.0250	5.00	ND	91.8	61-130			
o-Xylene	4.48	0.0250	5.00	ND	89.6	63-131			
p,m-Xylene	9.17	0.0500	10.0	ND	91.7	63-131			
Total Xylenes	13.7	0.0250	15.0	ND	91.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.84		8.00		85.5	70-130			

Matrix Spike Dup (2438056-MSD1) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Benzene	4.46	0.0250	5.00	ND	89.1	54-133	3.20	20	
Ethylbenzene	4.39	0.0250	5.00	ND	87.8	61-133	2.62	20	
Toluene	4.45	0.0250	5.00	ND	89.0	61-130	3.09	20	
o-Xylene	4.36	0.0250	5.00	ND	87.1	63-131	2.86	20	
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131	2.70	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.5	63-131	2.75	20	
Surrogate: 4-Bromochlorobenzene-PID	6.88		8.00		86.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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

Blank (2438002-BLK1) Prepared: 09/16/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

LCS (2438002-BS2) Prepared: 09/16/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike (2438002-MS2) Source: E409109-06 Prepared: 09/16/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2438002-MSD2) Source: E409109-06 Prepared: 09/16/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.9	70-130	2.82	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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

Blank (2438009-BLK1) Prepared: 09/16/24 Analyzed: 09/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

LCS (2438009-BS2) Prepared: 09/16/24 Analyzed: 09/18/24

Gasoline Range Organics (C6-C10)	38.3	20.0	50.0		76.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.2	70-130			

Matrix Spike (2438009-MS2) Source: E409120-06 Prepared: 09/16/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.8	70-130			

Matrix Spike Dup (2438009-MSD2) Source: E409120-06 Prepared: 09/16/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130	5.66	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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

Blank (2438056-BLK1) Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

LCS (2438056-BS2) Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	38.1	20.0	50.0		76.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			

Matrix Spike (2438056-MS2) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			

Matrix Spike Dup (2438056-MSD2) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	ND	83.2	70-130	6.82	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2437107-BLK1) Prepared: 09/14/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			

LCS (2437107-BS1) Prepared: 09/14/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	194	25.0	250		77.5	38-132			
Surrogate: n-Nonane	46.6		50.0		93.1	50-200			

Matrix Spike (2437107-MS1) Source: E409109-02 Prepared: 09/14/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	214	25.0	250	ND	85.7	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike Dup (2437107-MSD1) Source: E409109-02 Prepared: 09/14/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	209	25.0	250	ND	83.6	38-132	2.50	20	
Surrogate: n-Nonane	49.7		50.0		99.3	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2437108-BLK1)					Prepared: 09/14/24 Analyzed: 09/17/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			

LCS (2437108-BS1)					Prepared: 09/14/24 Analyzed: 09/17/24				
Diesel Range Organics (C10-C28)	192	25.0	250		76.9	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike (2437108-MS1)					Source: E409120-03		Prepared: 09/14/24 Analyzed: 09/17/24		
Diesel Range Organics (C10-C28)	183	25.0	250	ND	73.1	38-132			
Surrogate: n-Nonane	45.6		50.0		91.1	50-200			

Matrix Spike Dup (2437108-MSD1)					Source: E409120-03		Prepared: 09/14/24 Analyzed: 09/17/24		
Diesel Range Organics (C10-C28)	190	25.0	250	ND	75.9	38-132	3.74	20	
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2438074-BLK1)					Prepared: 09/18/24 Analyzed: 09/20/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			

LCS (2438074-BS1)					Prepared: 09/18/24 Analyzed: 09/20/24				
Diesel Range Organics (C10-C28)	188	25.0	250		75.0	38-132			
Surrogate: n-Nonane	51.7		50.0		103	50-200			

LCS Dup (2438074-BSD1)					Prepared: 09/18/24 Analyzed: 09/20/24				
Diesel Range Organics (C10-C28)	197	25.0	250		78.7	38-132	4.75	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2438019-BLK1)					Prepared: 09/16/24 Analyzed: 09/16/24				
Chloride	ND	20.0							
LCS (2438019-BS1)					Prepared: 09/16/24 Analyzed: 09/16/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2438019-MS1)					Source: E409116-06		Prepared: 09/16/24 Analyzed: 09/16/24		
Chloride	350	20.0	250	126	89.7	80-120			
Matrix Spike Dup (2438019-MSD1)					Source: E409116-06		Prepared: 09/16/24 Analyzed: 09/16/24		
Chloride	351	20.0	250	126	90.2	80-120	0.307	20	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2438026-BLK1)					Prepared: 09/17/24 Analyzed: 09/17/24				
Chloride	ND	20.0							
LCS (2438026-BS1)					Prepared: 09/17/24 Analyzed: 09/17/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2438026-MS1)					Source: E409120-03		Prepared: 09/17/24 Analyzed: 09/17/24		
Chloride	371	20.0	250	139	92.8	80-120			
Matrix Spike Dup (2438026-MSD1)					Source: E409120-03		Prepared: 09/17/24 Analyzed: 09/17/24		
Chloride	383	20.0	250	139	97.5	80-120	3.08	20	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2024 2:36:58PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2438052-BLK1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	ND	20.0							
LCS (2438052-BS1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2438052-MS1)					Source: E409128-03		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	531	20.0	250	285	98.3	80-120			
Matrix Spike Dup (2438052-MSD1)					Source: E409128-03		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	622	20.0	250	285	135	80-120	15.8	20	M2

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:	LVP SWD #1	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/20/24 14:36

- M2 Matrix spike recovery was outside quality control 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.



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: <u>LVP SWD #1</u>				Address: 205 E Bender Road #150		E409120		Job Number				0058-0007					
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240													
Address: 3122 National Parks Hwy				Phone: (575)748-1838													
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com													
Phone: 575-988-0055				Miscellaneous: Dale Woodall													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
9:00	9/12/24	Soil	1	SS01-01		1						X					
9:03				SS03-02		2						X					
9:05				SS04-01		3						X					
9:21				SS05-01b		4						X					
9:22				SS06-01		5						X					
9:23				SS07-01		6						X					
9:44				SS08-01		7						X					
9:45				SS09-01		8						X					
9:46				SS10-01		9						X					
10:03				SS10-01		10						X					
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 mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Cole Burton																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>Y</u> / 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										
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotecl

Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project:				Address: 205 E Bender Road #150		E 409120		010580007				X					
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240													
Address: 3122 National Parks Hwy				Phone: (575)748-1838													
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com													
Phone: 575-988-0055				Miscellaneous: Dale Woodall													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
12:05	9/12/24	Soil	1	SS05-1'		11						X					
12:08				SS06-1'		12						X					
12:11				SS07-1'		13						X					
12:19				SS08-1'		14						X					
12:23				SS09-1'		15						X					
12:25				SS10-1'		16						X					
12:53				SS08A-0'		17						X					
12:56				SS08A-1'		18						X					
12:58				SS10A-0'		19						X					
13:01				SS10A-1'		20						X					
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 mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Cole Burton																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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.									
[Signature]		9/13/24	7:15	[Signature]		9/13/24	1445										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
[Signature]		9/13/24	11:00	[Signature]		9/13/24	1800	Received on ice: 0 / N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
[Signature]		9/13/24	2400	Caitlin Man		9/16/24	7:30										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4									
								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Devon				Company: Devon				Lab WO#				1D 2D 3D Std				NM CO UT TX							
Project:				Address: 205 E Bender Road #150				E409120				010580007				X							
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240																			
Address: 3122 National Parks Hwy				Phone: (575)748-1838																			
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dv.com																			
Phone: 575-988-0055				Miscellaneous: Dale Woodall																			
Email: agiovengo@ensolum.com																							
Sample Information												Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA						
13:23	9/12/24	Soil	1	SS08B-01		21						X											
13:28	↓	↓	↓	SS08B-1'		22						X											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@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 mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Cole Burton																							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days Lab Use Only Received on ice: Y / N T1 T2 T3 AVG Temp °C																	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																		
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



envirotech

Envirotech Analytical Laboratory

Printed: 9/16/2024 10:51:36AM

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:	09/16/24 07:30	Work Order ID:	E409120
Phone:	(505) 382-1211	Date Logged In:	09/13/24 16:36	Logged In By:	Noe Soto
Email:	ashley.giovengo@wescominc.com	Due Date:	09/20/24 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 (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab 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.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: LVP SWD #001

Work Order: E409208

Job Number: 01058-0007

Received: 9/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/30/24

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: 9/30/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: LVP SWD #001
Workorder: E409208
Date Received: 9/24/2024 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/24/2024 7:30:00AM, under the Project Name: LVP SWD #001.

The analytical test results summarized in this report with the Project Name: LVP SWD #001 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
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BHO1-0'	5
BH01-2'	6
BH02-0'	7
BH02-1.5'	8
BH03-0'	9
BH03-2'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/30/24 15:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BHO1-0'	E409208-01A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
BH01-2'	E409208-02A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
BH02-0'	E409208-03A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
BH02-1.5'	E409208-04A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
BH03-0'	E409208-05A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
BH03-2'	E409208-06A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/30/2024 3:32:15PM

BHO1-0'

E409208-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2439044	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	91.0 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439038	
Chloride	13600	200	10	09/24/24	09/25/24	

Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:32:15PM
---	--	----------------------------------

BH01-2'

E409208-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2439044	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	95.9 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439038	
Chloride	1520	40.0	2	09/24/24	09/25/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:32:15PM
---	--	----------------------------------

BH02-0'

E409208-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.4 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2439044	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	88.2 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439038	
Chloride	15700	400	20	09/24/24	09/25/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:32:15PM
---	--	----------------------------------

BH02-1.5'

E409208-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439044	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
<i>Surrogate: n-Nonane</i>						
	95.5 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439038	
Chloride	10400	200	10	09/24/24	09/25/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: LVP SWD #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/30/2024 3:32:15PM

BH03-0'**E409208-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439044	
Diesel Range Organics (C10-C28)	90.7	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	103	50.0	1	09/25/24	09/28/24	
<i>Surrogate: n-Nonane</i>						
	92.5 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439038	
Chloride	1280	40.0	2	09/24/24	09/25/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:32:15PM
---	--	----------------------------------

BH03-2'

E409208-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2439027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439044	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
<i>Surrogate: n-Nonane</i>						
	92.3 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439038	
Chloride	1740	20.0	1	09/24/24	09/25/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/30/2024 3:32:15PM

Volatile Organics by EPA 8021B

Analyst: CG

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

Blank (2439027-BLK1)

Prepared: 09/24/24 Analyzed: 09/28/24

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	7.14		8.00		89.2	70-130			

LCS (2439027-BS1)

Prepared: 09/24/24 Analyzed: 09/28/24

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	4.99	0.0250	5.00		99.8	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.2	70-130			

LCS Dup (2439027-BSD1)

Prepared: 09/24/24 Analyzed: 09/28/24

Benzene	4.85	0.0250	5.00		96.9	70-130	7.75	20	
Ethylbenzene	4.66	0.0250	5.00		93.2	70-130	7.13	20	
Toluene	4.77	0.0250	5.00		95.3	70-130	7.42	20	
o-Xylene	4.65	0.0250	5.00		92.9	70-130	7.11	20	
p,m-Xylene	9.48	0.0500	10.0		94.8	70-130	6.68	20	
Total Xylenes	14.1	0.0250	15.0		94.2	70-130	6.82	20	
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/30/2024 3:32:15PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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

Blank (2439027-BLK1) Prepared: 09/24/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			

LCS (2439027-BS2) Prepared: 09/24/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

LCS Dup (2439027-BSD2) Prepared: 09/24/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0		83.4	70-130	2.14	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/30/2024 3:32:15PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2439044-BLK1)					Prepared: 09/25/24 Analyzed: 09/28/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.6		50.0		95.3	50-200			

LCS (2439044-BS1)					Prepared: 09/25/24 Analyzed: 09/28/24				
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	51.4		50.0		103	50-200			

Matrix Spike (2439044-MS1)					Source: E409208-01		Prepared: 09/25/24 Analyzed: 09/28/24		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	51.5		50.0		103	50-200			

Matrix Spike Dup (2439044-MSD1)					Source: E409208-01		Prepared: 09/25/24 Analyzed: 09/28/24		
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	2.67	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/30/2024 3:32:15PM

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 (2439038-BLK1)					Prepared: 09/24/24 Analyzed: 09/25/24				
Chloride	ND	20.0							
LCS (2439038-BS1)					Prepared: 09/24/24 Analyzed: 09/25/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2439038-MS1)					Source: E409202-02		Prepared: 09/24/24 Analyzed: 09/25/24		
Chloride	297	20.0	250	47.1	100	80-120			
Matrix Spike Dup (2439038-MSD1)					Source: E409202-02		Prepared: 09/24/24 Analyzed: 09/25/24		
Chloride	296	20.0	250	47.1	99.4	80-120	0.574	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:	LVP SWD #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/30/24 15:32

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Devon				Company: Devon				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: LVP SWD #001				Address: 205 E Bender Road #150				E 409208		01058-0007					X	X			
Project Manager: Ashley Gioveno				City, State, Zip: Hobbs NM, 88240															
Address: 3122 National Parks Hwy				Phone: (575)748-1838															
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com															
Phone: 575-988-0055				Miscellaneous: Dale Woodall															
Email: agioveno@ensolum.com																			
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
945	9/20/24	S	1	BH01-0'			1						X						
1007	9/20/24	S	1	BH01-2'			2						X						
1030	9/20/24	S	1	BH02-0'			3						X						
1050	9/20/24	S	1	BH02-1.5'			4						X						
1137	9/20/24	S	1	BH03-0'			5						X						
1143	9/20/24	S	1	BH03-2'			6						X						
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@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 mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Cole Burton, Jonathan Jorgensen																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: 0 / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 9/24/2024 12:06:33PM

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:	09/24/24 07:30	Work Order ID:	E409208
Phone:	(505) 382-1211	Date Logged In:	09/23/24 14:55	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	09/30/24 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 (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 Instruction

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: LVP SWD #1

Work Order: E410116

Job Number: 01058-0007

Received: 10/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/17/24

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: 10/17/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: LVP SWD #1
Workorder: E410116
Date Received: 10/13/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/13/2024 8:00:00AM, under the Project Name: LVP SWD #1.

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

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS08A-3'	5
SS10-3'	6
SS10A-3'	7
BH01-4'	8
BH02-3'	9
BH03-4'	10
BH03-4.5'	11
QC Summary Data	12
QC - Volatile Organic Compounds by EPA 8260B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name:	LVP SWD #1	Reported: 10/17/24 08:17
	Project Number:	01058-0007	
	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS08A-3'	E410116-01A	Soil	10/10/24	10/13/24	Glass Jar, 2 oz.
SS10-3'	E410116-02A	Soil	10/10/24	10/13/24	Glass Jar, 2 oz.
SS10A-3'	E410116-03A	Soil	10/10/24	10/13/24	Glass Jar, 2 oz.
BH01-4'	E410116-04A	Soil	10/10/24	10/13/24	Glass Jar, 2 oz.
BH02-3'	E410116-05A	Soil	10/10/24	10/13/24	Glass Jar, 2 oz.
BH03-4'	E410116-06A	Soil	10/10/24	10/13/24	Glass Jar, 2 oz.
BH03-4.5'	E410116-07A	Soil	10/10/24	10/13/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: LVP SWD #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/17/2024 8:17:40AM

SS08A-3'

E410116-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		97.3 %	70-130	10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/14/24	10/15/24	
Surrogate: Toluene-d8		98.6 %	70-130	10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		97.3 %	70-130	10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/14/24	10/15/24	
Surrogate: Toluene-d8		98.6 %	70-130	10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/14/24	
Surrogate: n-Nonane		105 %	50-200	10/14/24	10/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	830	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: LVP SWD #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/17/2024 8:17:40AM

SS10-3'

E410116-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	101 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	101 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/14/24	
Surrogate: n-Nonane	102 %	50-200		10/14/24	10/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	321	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/17/2024 8:17:40AM
---	--	-----------------------------------

SS10A-3'

E410116-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	95.5 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	101 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	95.5 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	101 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/14/24	
Surrogate: n-Nonane	102 %	50-200		10/14/24	10/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	673	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/17/2024 8:17:40AM
---	--	-----------------------------------

BH01-4'

E410116-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	102 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	102 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/14/24	
Surrogate: n-Nonane	94.9 %	50-200		10/14/24	10/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	189	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/17/2024 8:17:40AM
---	--	-----------------------------------

BH02-3'

E410116-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	98.0 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	100 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	98.0 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	100 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/14/24	
Surrogate: n-Nonane	109 %	50-200		10/14/24	10/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	1200	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/17/2024 8:17:40AM
---	--	-----------------------------------

BH03-4'

E410116-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	95.0 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	101 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	95.0 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	101 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/14/24	
Surrogate: n-Nonane	96.1 %	50-200		10/14/24	10/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	336	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/17/2024 8:17:40AM
---	--	-----------------------------------

BH03-4.5'

E410116-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	96.0 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	102 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	96.0 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	102 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/14/24	
Surrogate: n-Nonane	91.7 %	50-200		10/14/24	10/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	226	20.0	1	10/14/24	10/14/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/2024 8:17:40AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2442003-BLK1)Prepared: 10/14/24 Analyzed: 10/15/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2442003-BS1)Prepared: 10/14/24 Analyzed: 10/15/24

Benzene	2.26	0.0250	2.50		90.3	70-130			
Ethylbenzene	2.46	0.0250	2.50		98.2	70-130			
Toluene	2.34	0.0250	2.50		93.6	70-130			
o-Xylene	2.45	0.0250	2.50		98.0	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.3	70-130			
Total Xylenes	7.36	0.0250	7.50		98.2	70-130			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike (2442003-MS1)Source: E410117-02Prepared: 10/14/24 Analyzed: 10/15/24

Benzene	2.33	0.0250	2.50	ND	93.3	48-131			
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135			
Toluene	2.41	0.0250	2.50	ND	96.2	48-130			
o-Xylene	2.53	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.58	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike Dup (2442003-MSD1)Source: E410117-02Prepared: 10/14/24 Analyzed: 10/15/24

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	0.0214	23	
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135	1.84	27	
Toluene	2.43	0.0250	2.50	ND	97.1	48-130	0.890	24	
o-Xylene	2.51	0.0250	2.50	ND	100	43-135	0.655	27	
p,m-Xylene	5.08	0.0500	5.00	ND	102	43-135	0.503	27	
Total Xylenes	7.59	0.0250	7.50	ND	101	43-135	0.119	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/2024 8:17:40AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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

Blank (2442003-BLK1) Prepared: 10/14/24 Analyzed: 10/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2442003-BS2) Prepared: 10/14/24 Analyzed: 10/15/24

Gasoline Range Organics (C6-C10)	53.8	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2442003-MS2) Source: E410117-02 Prepared: 10/14/24 Analyzed: 10/15/24

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike Dup (2442003-MSD2) Source: E410117-02 Prepared: 10/14/24 Analyzed: 10/15/24

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130	2.30	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/2024 8:17:40AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2442021-BLK1) Prepared: 10/14/24 Analyzed: 10/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

LCS (2442021-BS1) Prepared: 10/14/24 Analyzed: 10/14/24

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			

Matrix Spike (2442021-MS1) Source: E410116-01 Prepared: 10/14/24 Analyzed: 10/14/24

Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

Matrix Spike Dup (2442021-MSD1) Source: E410116-01 Prepared: 10/14/24 Analyzed: 10/14/24

Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	0.583	20	
Surrogate: n-Nonane	51.7		50.0		103	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/2024 8:17:40AM

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 (2442005-BLK1)					Prepared: 10/14/24 Analyzed: 10/14/24				
Chloride	ND	20.0							
LCS (2442005-BS1)					Prepared: 10/14/24 Analyzed: 10/14/24				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2442005-MS1)					Source: E410115-05		Prepared: 10/14/24 Analyzed: 10/14/24		
Chloride	679	200	250	422	103	80-120			
Matrix Spike Dup (2442005-MSD1)					Source: E410115-05		Prepared: 10/14/24 Analyzed: 10/14/24		
Chloride	682	200	250	422	104	80-120	0.376	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:	LVP SWD #1	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/24 08:17

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State											
Client: Devon				Company: Devon		Lab WO#		1D		2D		3D		Std		NM		CO		UT		TX	
Project: LVP SWD #1				Address: 205 E Bender Road #150		E410116		01058-0007						X		X							
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240																			
Address: 3122 National Parks Hwy				Phone: (575)748-1838																			
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com																			
Phone: 575-988-0055				Miscellaneous: Dale Woodall																			
Email: agiovengo@ensolum.com																							
Sample Information						Analysis and Method										EPA Program							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks
1005	10/10/24	S	1	SS08A-3'		1						X											Mostly Rock Must Pulverize
1419	10/10/24	S	1	SS10-3'		2						X											
1447	10/10/24	S	1	SS10A-3'		3						X											Mostly Rock Must Pulverize
1312	10/10/24	S	1	BH01-4'		4						X											Mostly Rock Must Pulverize
1120	10/10/24	S	1	BH02-3'		5						X											
1609	10/10/24	S	1	BH03-4'		6						X											Mostly Rock Must Pulverize
1630	10/10/24	S	1	BH03-4.5'		7						X											Mostly Rock Must Pulverize
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com, jgonzales@ensolum.com, oaderinto@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Chad Hamilton																							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: (Y) N											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C 4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



envirotech

Envirotech Analytical Laboratory

Printed: 10/14/2024 10:00:49AM

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:	10/13/24 08:00	Work Order ID:	E410116
Phone:	(505) 382-1211	Date Logged In:	10/11/24 14:37	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	10/18/24 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 (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 Instruction

Samples 1,3,4,6 & 7- Mostly rock must pulverize.- Per client.

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: LVP SWD #001

Work Order: E410117

Job Number: 01058-0007

Received: 10/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/17/24

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: 10/17/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: LVP SWD #001
Workorder: E410117
Date Received: 10/14/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/14/2024 8:00:00AM, under the Project Name: LVP SWD #001.

The analytical test results summarized in this report with the Project Name: LVP SWD #001 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
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS08A-2'	5
SS10A-2'	6
SS10-2'	7
BH01-3'	8
BH02-2'	9
BH03-3'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/24 08:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS08A-2'	E410117-01A	Soil	10/10/24	10/14/24	Glass Jar, 2 oz.
SS10A-2'	E410117-02A	Soil	10/10/24	10/14/24	Glass Jar, 2 oz.
SS10-2'	E410117-03A	Soil	10/10/24	10/14/24	Glass Jar, 2 oz.
BH01-3'	E410117-04A	Soil	10/10/24	10/14/24	Glass Jar, 2 oz.
BH02-2'	E410117-05A	Soil	10/10/24	10/14/24	Glass Jar, 2 oz.
BH03-3'	E410117-06A	Soil	10/10/24	10/14/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: LVP SWD #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/17/2024 8:19:50AM

SS08A-2'

E410117-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	100 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	100 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/15/24	
Surrogate: n-Nonane	99.1 %	50-200		10/14/24	10/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	708	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: LVP SWD #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/17/2024 8:19:50AM

SS10A-2'

E410117-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	101 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	101 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/15/24	
Surrogate: n-Nonane	89.5 %	50-200		10/14/24	10/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	319	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/17/2024 8:19:50AM
---	--	-----------------------------------

SS10-2'

E410117-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		100 %	70-130	10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/14/24	10/15/24	
Surrogate: Toluene-d8		101 %	70-130	10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		100 %	70-130	10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/14/24	10/15/24	
Surrogate: Toluene-d8		101 %	70-130	10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/15/24	
Surrogate: n-Nonane		98.2 %	50-200	10/14/24	10/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	522	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/17/2024 8:19:50AM
---	--	-----------------------------------

BH01-3'

E410117-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	103 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	103 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/15/24	
Surrogate: n-Nonane	91.2 %	50-200		10/14/24	10/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	409	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/17/2024 8:19:50AM
---	--	-----------------------------------

BH02-2'

E410117-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	102 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	102 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/15/24	
Surrogate: n-Nonane	95.1 %	50-200		10/14/24	10/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	1330	20.0	1	10/14/24	10/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/17/2024 8:19:50AM
---	--	-----------------------------------

BH03-3'

E410117-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	100 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2442003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		10/14/24	10/15/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		10/14/24	10/15/24	
Surrogate: Toluene-d8	100 %	70-130		10/14/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/15/24	
Surrogate: n-Nonane	88.5 %	50-200		10/14/24	10/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2442005
Chloride	871	20.0	1	10/14/24	10/14/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/2024 8:19:50AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2442003-BLK1) Prepared: 10/14/24 Analyzed: 10/15/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2442003-BS1) Prepared: 10/14/24 Analyzed: 10/15/24

Benzene	2.26	0.0250	2.50		90.3	70-130			
Ethylbenzene	2.46	0.0250	2.50		98.2	70-130			
Toluene	2.34	0.0250	2.50		93.6	70-130			
o-Xylene	2.45	0.0250	2.50		98.0	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.3	70-130			
Total Xylenes	7.36	0.0250	7.50		98.2	70-130			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike (2442003-MS1) Source: E410117-02 Prepared: 10/14/24 Analyzed: 10/15/24

Benzene	2.33	0.0250	2.50	ND	93.3	48-131			
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135			
Toluene	2.41	0.0250	2.50	ND	96.2	48-130			
o-Xylene	2.53	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.58	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike Dup (2442003-MSD1) Source: E410117-02 Prepared: 10/14/24 Analyzed: 10/15/24

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	0.0214	23	
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135	1.84	27	
Toluene	2.43	0.0250	2.50	ND	97.1	48-130	0.890	24	
o-Xylene	2.51	0.0250	2.50	ND	100	43-135	0.655	27	
p,m-Xylene	5.08	0.0500	5.00	ND	102	43-135	0.503	27	
Total Xylenes	7.59	0.0250	7.50	ND	101	43-135	0.119	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/2024 8:19:50AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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

Blank (2442003-BLK1) Prepared: 10/14/24 Analyzed: 10/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2442003-BS2) Prepared: 10/14/24 Analyzed: 10/15/24

Gasoline Range Organics (C6-C10)	53.8	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2442003-MS2) Source: E410117-02 Prepared: 10/14/24 Analyzed: 10/15/24

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike Dup (2442003-MSD2) Source: E410117-02 Prepared: 10/14/24 Analyzed: 10/15/24

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130	2.30	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/2024 8:19:50AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2442021-BLK1) Prepared: 10/14/24 Analyzed: 10/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

LCS (2442021-BS1) Prepared: 10/14/24 Analyzed: 10/14/24

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			

Matrix Spike (2442021-MS1) Source: E410116-01 Prepared: 10/14/24 Analyzed: 10/14/24

Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

Matrix Spike Dup (2442021-MSD1) Source: E410116-01 Prepared: 10/14/24 Analyzed: 10/14/24

Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	0.583	20	
Surrogate: n-Nonane	51.7		50.0		103	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	LVP SWD #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/2024 8:19:50AM

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 (2442005-BLK1)					Prepared: 10/14/24 Analyzed: 10/14/24				
Chloride	ND	20.0							
LCS (2442005-BS1)					Prepared: 10/14/24 Analyzed: 10/14/24				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2442005-MS1)					Source: E410115-05		Prepared: 10/14/24 Analyzed: 10/14/24		
Chloride	679	200	250	422	103	80-120			
Matrix Spike Dup (2442005-MSD1)					Source: E410115-05		Prepared: 10/14/24 Analyzed: 10/14/24		
Chloride	682	200	250	422	104	80-120	0.376	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:	LVP SWD #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/17/24 08:19

- 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.



Chain of Custody

Client Information												
Client: Devon Project: LVP SWD #1 Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com												
Lab Use Information												
Company: Devon Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com Miscellaneous: Dale Woodall												
Lab Use Only												
Lab WO# E41017		Job Number 01058-007		TAT 1D 2D 3D Std X								
Analysis and Method												
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					
								EPA Program SDWA CWA RCRA Compliance Y or N PWSID #				
								Remarks				
Sample Information												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number						
0921	10/10/24	S	1	SS ^{CH} SS08A-2'		1			X			Mostly Rock must pulverize
1435	10/10/24	S	1	SS10A-2'		2			X			
1355	10/10/24	S	1	SS16-2'		3			X			Mostly Rock must pulverize
1200	10/10/24	S	1	BH01-3'		4			X			Mostly Rock must pulverize
1050	10/10/24	S	1	BH02-2'		5			X			Mostly Rock must Pulverize
1538	10/10/24	S	1	BH03-3'		6			X			Mostly Rock-pulverize
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, iestrella@ensolum.com, bdean@ensolum.com, bsimmons@ensolum.com, jgonzales@ensolum.com, oaderinto@ensolum.com												
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												
Sampled by: Chad Hamilton												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: (Y) N T1 T2 T3 AVG Temp °C 4				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time					
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.												

Envirotech Analytical Laboratory

Printed: 10/14/2024 10:09:38AM

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:	10/14/24 08:00	Work Order ID:	E410117
Phone:	(505) 382-1211	Date Logged In:	10/11/24 14:40	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wescominc.com	Due Date:	10/18/24 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 (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 Instruction

Samples 1, 3-6. Mostly rock must pulverize- Per client.

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

Date



envirotech Inc.



APPENDIX E

NMOCD Notifications

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 383093

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 383093
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2422877091
Incident Name	NAPP2422877091 LVP SWD #001 @ 30-015-42234
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42234] LVP SWD #001

Location of Release Source	
Site Name	LVP SWD #001
Date Release Discovered	08/15/2024
Surface Owner	Private

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	6,309
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	09/19/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Ashley Giovengo Senior Engineer 575-988-0055
Please provide any information necessary for navigation to liner inspection site	32.3330917, -104.0850372

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

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

CONDITIONS

Action 383093

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 383093
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	9/12/2024

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 396314

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	396314
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2422877091
Incident Name	NAPP2422877091 LVP SWD #001 @ 30-015-42234
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-42234] LVP SWD #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LVP SWD #001
Date Release Discovered	08/15/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 361 BBL Recovered: 360 BBL Lost: 1 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)	inlet enardo failed. 360.5 bbls spilled into lined containment and 360 bbls recovered. 0.71 bbls spilled onto the pad, not recovered

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, Page 2

Action 396314

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	396314
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 08/22/2024
--	--

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, Page 3

Action 396314

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	396314
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 26 and 50 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Between 1 and 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)	15700
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	194
GRO+DRO	(EPA SW-846 Method 8015M)	90.7
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	07/01/2025
On what date will (or did) the final sampling or liner inspection occur	09/20/2024
On what date will (or was) the remediation complete(d)	07/15/2025
What is the estimated surface area (in square feet) that will be reclaimed	1020
What is the estimated volume (in cubic yards) that will be reclaimed	151
What is the estimated surface area (in square feet) that will be remediated	1020
What is the estimated volume (in cubic yards) that will be remediated	151

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.

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, Page 4

Action 396314

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396314
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	30-015-42234 LVP SWD #001
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<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@dv.com Date: 10/28/2024
<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>	

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, Page 5

Action 396314

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396314
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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, Page 6

Action 396314

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396314
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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

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

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

CONDITIONS

Action 396314

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396314
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written and with the following conditions; 1. Excavation of the impacted area on-pad (specifically the north side) until laboratory analytical results indicate the floor and sidewalls of the excavation will be in compliance with the strictest Closure Criteria. 2. Devon has 90-days (January 30, 2025) to submit to OCD its appropriate or final remediation closure report.	11/1/2024