



January 7, 2025

New Mexico Energy Minerals and Natural Resources Department

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

**Re: Deferral Request
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 *Deferral Request* to document assessment and soil sampling activities at the LVP SWD #001 (Site) in Unit I, Section 4, Township 23 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The Site (32.3330917°, -104.0850372°) is associated with oil and gas exploration and production operations on Private Land.

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water within a lined tank battery containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Devon is submitting this *Deferral Request*, describing Site assessment, delineation and excavation activities that have occurred to date and requesting deferral of final remediation for Incident Number nAPP2422877091 until the Site is reconstructed and/or the well pad is abandoned.

BACKGROUND

On August 15, 2024, the inlet Enardo failed, resulting in the release of approximately 361 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 360 bbls of produced water were recovered from within the lined containment. Overspray from the release impacted two small areas on the north and south sides of the tank containment approximately 509 square feet and 163 square feet in size, respectively. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD) District II Office. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery. Upon inspection, the liner was determined to be intact and had the ability to contain the release in question. Devon reported the release to the NMOCD via email on August 15, 2024, and submitted a Release Notification Form C-141 (Form C-141) on August 22, 2024. The release was assigned Incident Number nAPP2422877091.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be 38 feet below ground surface (bgs) based on groundwater depth measurement of a nearby water well. On July 16, 2021, a soil boring, New Mexico Office of the State Engineer (NMOSE) file number C-04415 POD7 was drilled nearly 0.3 miles west of the Site. Soil boring C-04415 POD7 was drilled to a depth of 55 feet bgs. Depth to groundwater was confirmed at 38 feet bgs as indicated on the NMOSE *Point of Diversion Summary* form. The Well Record and Log is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 528 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 on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

On August 22, 2024, Ensolum personnel visited the Site to evaluate the release extent and to collect lateral delineation sample SS02 at ground surface. Ensolum personnel returned to the Site on September 12, 2024, to collect lateral delineation soil samples SS01, SS03 through SS08, SS08A, SS08B, SS09, SS10, SS10A, and SS10B at ground surface; Delineation soil samples SS08A, SS08B, SS10A and SS10B were advanced to a depth of 1-foot bgs via hand auger. The soil samples were field screened for chloride using Hatch® chloride QuanTab® strips and for TPH utilizing a PetroFLAG® soil analyzer system. A liner integrity inspection was conducted on September 20, 2024, and the liner was found to be intact. Three boreholes BH01 through BH03 were advanced via hand auger within the release extent, outside of the lined containment, to a depth of 2 feet bgs in boreholes BH01 and BH03 and 1.5 feet bgs in borehole BH02 to verify the vertical extent of impacted soil. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted in Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

Ensolum personnel returned to the Site on October 10, 2024, to advance lateral delineation soil sample locations SS08A, SS10 and SS10A to a depth of 3 feet bgs. 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 via 41-millimeter (mm) Shaw portable core drill. Discrete delineation soil samples were field screened and analyzed in the same manner previously described. Field screening results and observations from the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS08, SS08B, SS09, SS10A, and SS10B, collected at ground surface, indicated all COC concentrations were compliant with Site Closure Criteria. Laboratory analytical results indicated COC concentrations were in compliance with the Site Closure Criteria at a depth of 1-foot bgs in sample locations SS05 through SS08. Chloride concentrations exceeded the Site Closure Criteria from ground surface to 3 feet bgs in sample locations SS08A and SS10A and at ground surface in sample location SS10.

Laboratory analytical results for the vertical delineation soil samples collected from borehole BH01 indicated chloride concentrations exceeded the Site Closure Criteria at depths ranging from ground surface to 2 feet bgs. Subsequent delineation borehole BH02 indicated chloride concentrations exceeded the Site Closure Criteria at depths ranging from ground surface to 3 feet bgs and laboratory analytical results from delineation borehole BH03 indicated chloride concentrations exceeded the Site Closure Criteria at depths ranging from ground surface to 4 feet bgs. Based on laboratory analytical results, excavation of the impacted areas on the north and south sides of the tank containment was necessary. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

EXCAVATION ACTIVITIES

Beginning on December 5, 2024, Ensolum personnel oversaw the excavation of impacted soil from the release areas on the north and south sides of the tank battery containment. Excavation activities were performed utilizing a backhoe to depths ranging from ground surface to 4.5 feet bgs. To direct excavation activities, soil was field screened for chloride as previously described above. Photographic documentation is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS07) were collected from the floors of the excavations and sidewall soil samples (SW01 through SW05) were collected from the outside walls of the excavation and against the lined tank containment at depths ranging from ground surface to 4 feet bgs. The soil samples were handled and analyzed as previously described. The excavation extents and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

A total of approximately 337 cubic yards of soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the excavation floor soil sample FS01 was collected at 4.5 feet bgs, FS02 was collected at 4.25 feet bgs, FS03, FS04, and FS05 were collected at 4 feet bgs, FS06 and

FS07 were collected at 3 feet bgs and sidewall soil samples SW01 through SW05 were collected from ground surface to 4 feet bgs. These samples results indicated all COC concentrations were compliant with the Site Closure Criteria except sidewall samples SW02 and SW03. Laboratory analytical results are summarized in Table 2 and the complete laboratory analytical reports are included as Appendix D.

DEFERRAL REQUEST

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

Impacted soil remaining in place beneath the liner, which is delineated vertically by nearby confirmation soil samples FS01, FS02, collected depths ranging from 4 through 4.5 feet bgs, and laterally by delineation soil samples SS01 through SS04, collected at the ground level. Laboratory analytical results from sidewall soil samples SW01 and SW02 confirm the presence of chloride containing soil is limited to beneath the lined tank battery containment. If taking the full footprint of the tank battery in consideration for contaminated soil, approximately 1,056 cubic yards of chloride impacted soil remains in place beneath the containment liner based on a maximum depth of 4.5-foot depth determined through delineation and confirmation soil sampling. The impacted soil volume estimate includes waste-containing soil volumes to be addressed through reconstruction of the containment or final pad reclamation.

Devon does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 38 feet bgs, and the impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired by Devon and will restrict future vertical migration of residual impacts and any interactions with humans and/or wildlife.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Devon requests deferral of final remediation for Incident Number nAPP2422877091 until final reclamation of the well pad or major construction, whichever comes first. Remedial actions completed to date have been protective of human health, the environment, and groundwater and deferment of impacted soil beneath the lined containment appears to be equally protective and warranting deferment. Notifications submitted to the NMOCD are included in Appendix F.

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

Sincerely,
Ensolum, LLC



Ashely Giovengo
Senior Scientist



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

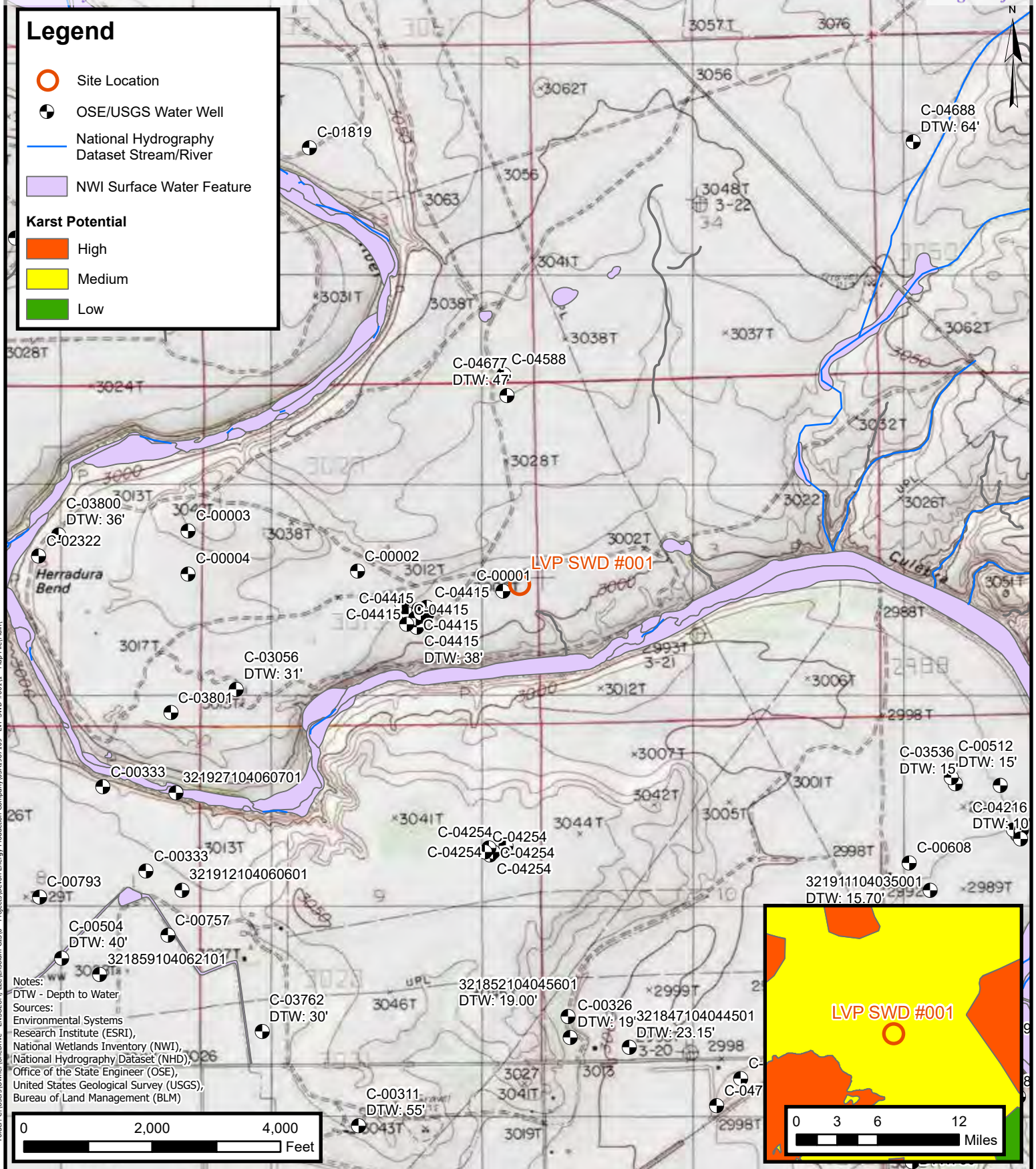
cc: Jim Raley, Devon

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Delineation Soil Sample Analytical Results
Table 2	Confirmation Soil Sample Analytical Results
Appendix A	Reference Wells
Appendix B	Photographic Log Lithologic Soil Sampling Logs
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Correspondence



FIGURES

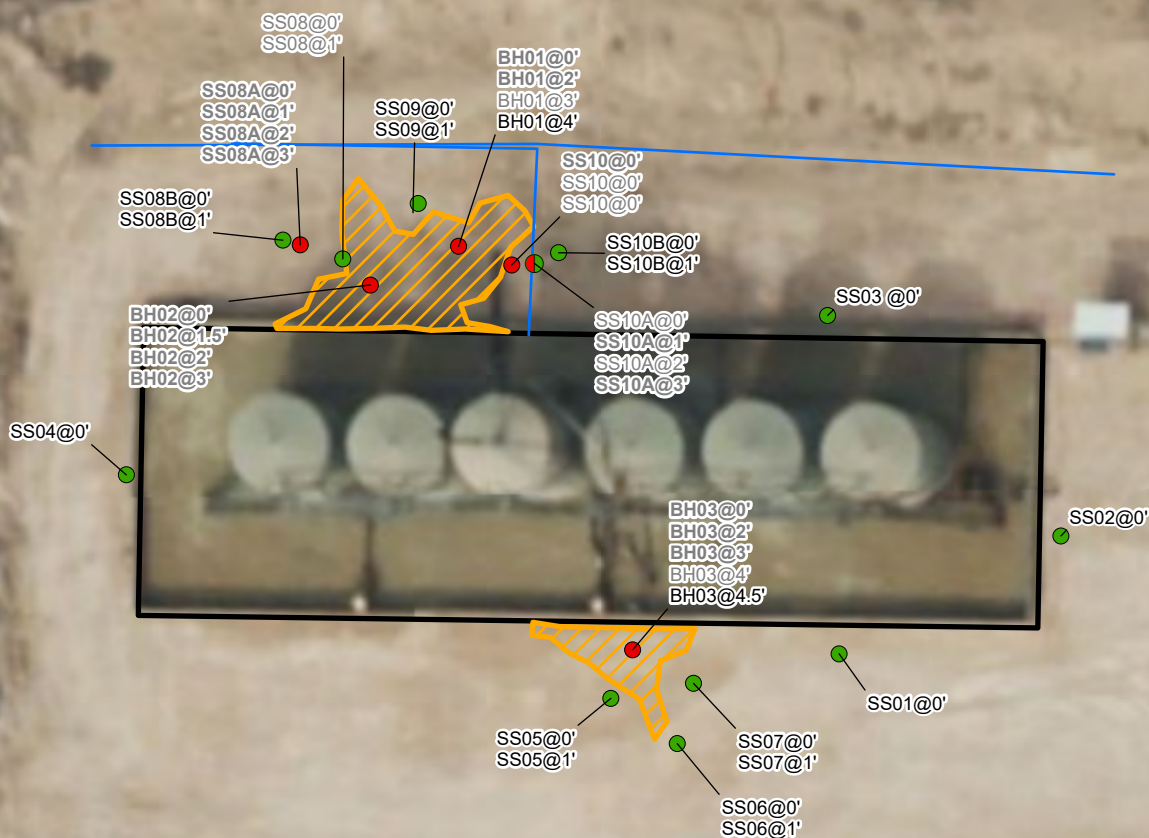


Site Receptor Map
Devon Energy Production Company, LP
LVP SWD #001
Incident Number: nAPP2422877091
Unit I, Section 04, T 23S, R 28E
Eddy County, New Mexico

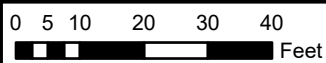
FIGURE
1

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
- Water Utility Line
- ▭ Liner Containment Area
- ▨ Release Extent

**Notes:**

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



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

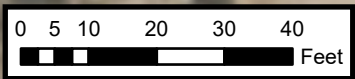
FIGURE**2**

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Excavation Floor Sample with Concentrations Exceeding Closure Criteria
- Water Utility Line
- Liner Containment Area
- Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.
Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

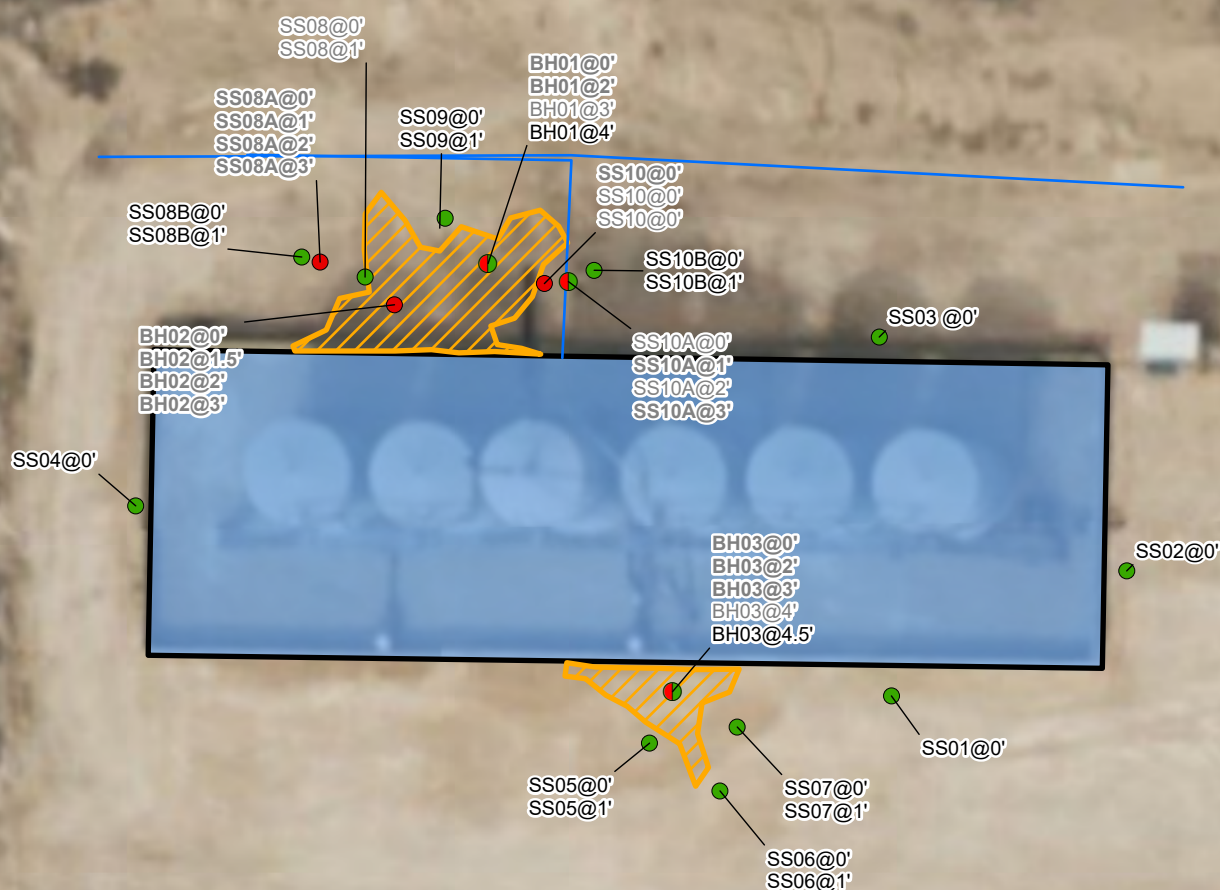
Devon Energy Production Company, LP
LVP SWD #001
Incident Number: nAPP2422877091
Unit I, Section 04, T 23S, R 28E
Eddy County, New Mexico

FIGURE

3

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
- Water Utility Line
- Liner Containment Area
- Deferral Area
- Release Extent selection



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 5 10 20 30 40
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Area of Requested Deferral

Devon Energy Production Company, LP

LVP SWD #001

Incident Number: nAPP2422877091

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

Eddy County, New Mexico

FIGURE

4



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

TABLE 1 - CONT'D
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 Devon Energy Production Company, LP
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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										
FS01	12/5/2024	4.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	583
FS02	12/6/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	739
FS02	12/20/2024	4.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	76
FS03	12/9/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	273
FS04	12/9/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	98
FS05	12/9/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	111
FS06	12/11/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	301
FS07	12/11/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	159

Notes:

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GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TABLE 1 - CONT'D
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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SW01	12/5/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	414
SW02	12/5/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,020
SW03	12/9/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,330
SW04	12/6/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	494
SW05	12/11/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	163

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)

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.


11/14/23 8:33 AM


POINT OF DIVERSION SUMMARY





APPENDIX B


Lithologic Soil Sampling Logs


								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.											

								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		Caliche Pad					
D	1,069		N	SS10A	1	1	CCHE	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, Compentent, Unfractured					
Total Depth @ 3 ft bgs.													



APPENDIX C

Photographic Logs



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

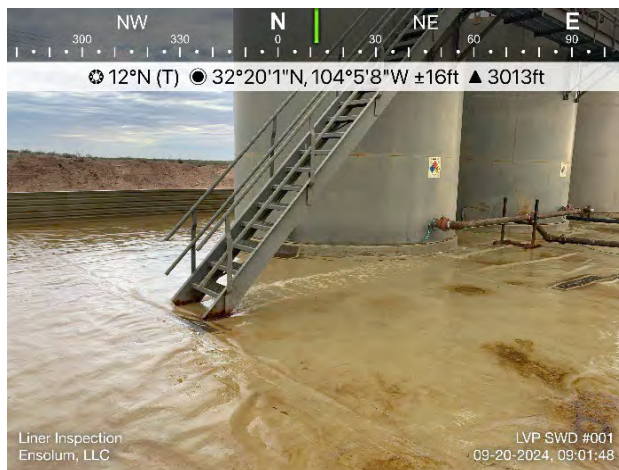
Incident Number: nAPP2422877091



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

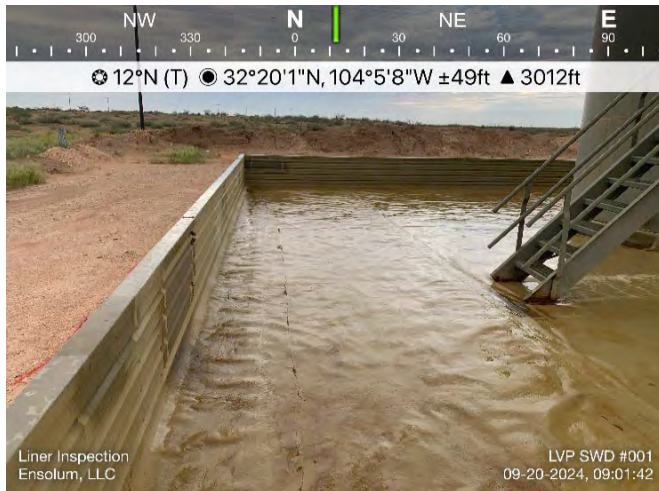


Photographic Log

Devon Energy Production Company, LP

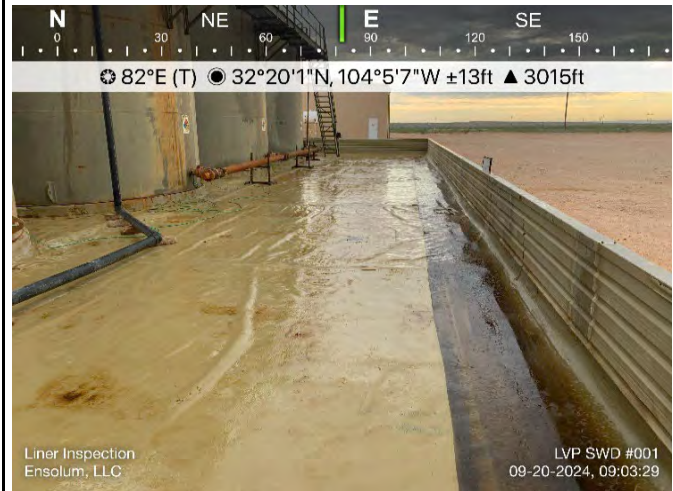
LVP SWD #001

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

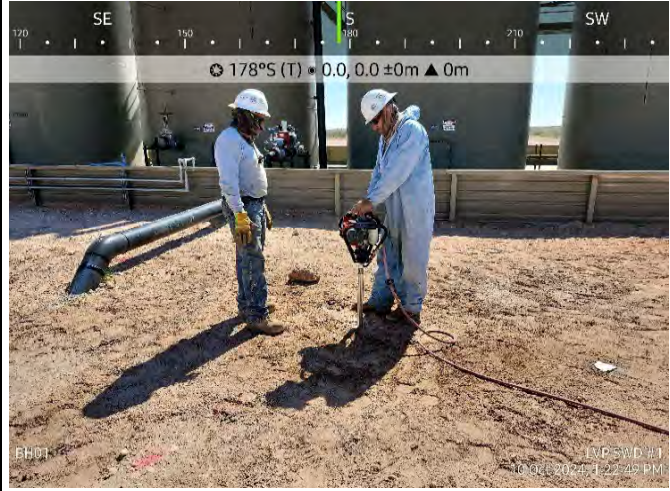


Photograph 13

Date: 09/20/2024

Description: Delineation (BH02)

View: South

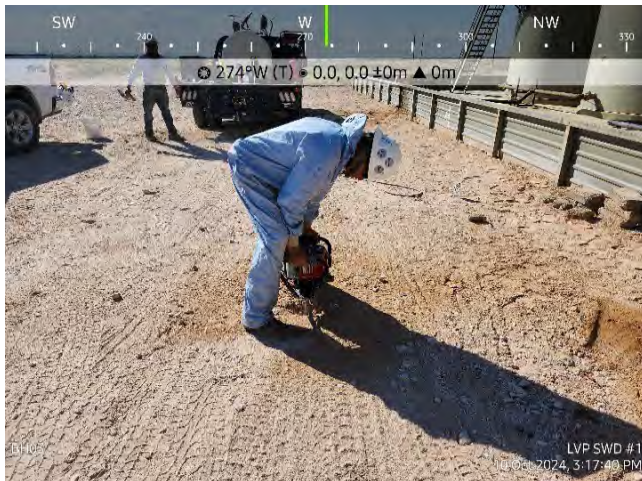


Photograph 14

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



Photographic Log

Devon Energy Production Company, LP

LVP SWD #001

Incident Number: nAPP2422877091



Photograph 17
Description: Excavation
View: East

Date: 12/05/2024



Photograph 18
Description: Excavation
View: South

Date: 12/05/2024



Photograph 19
Description: Excavation
View: Southeast

Date: 12/05/2024



Photograph 20
Description: Excavation
View: Southeast

Date: 12/05/2024



Photographic Log

Devon Energy Production Company, LP

LVP SWD #001

Incident Number: nAPP2422877091



Photograph 21
Description: Excavation
View: East

Date: 12/06/2024



Photograph 22
Description: Excavation
View: West

Date: 12/06/2024



Photograph 23
Description: Excavation
View: Northeast

Date: 12/06/2024



Photograph 24
Description: Excavation
View: East

Date: 12/06/2024



Photographic Log

Devon Energy Production Company, LP

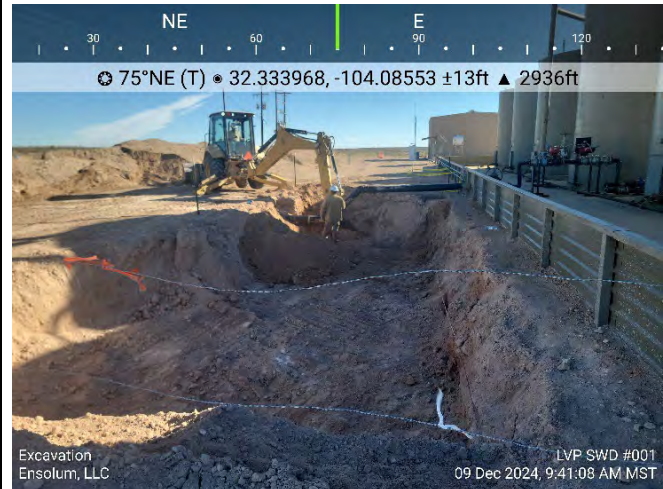
LVP SWD #001

Incident Number: nAPP2422877091



Photograph 25
Description: Excavation
View: West

Date: 12/09/2024



Photograph 26
Description: Excavation
View: East

Date: 12/09/2024



Photograph 27
Description: Excavation
View: West

Date: 12/10/2024



Photograph 28
Description: Excavation
View: West

Date: 12/10/2024

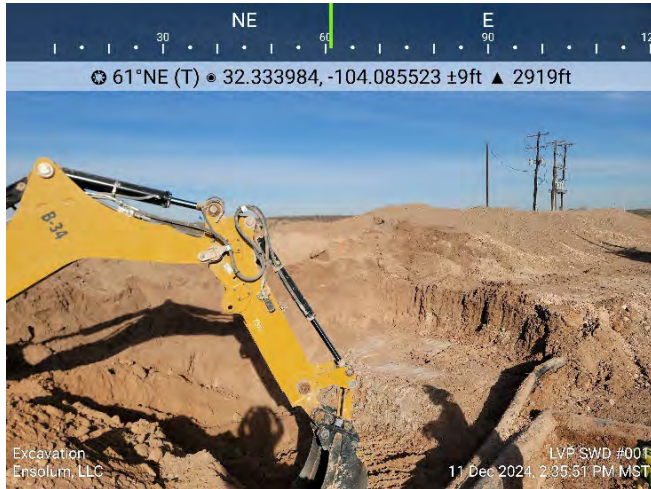


Photographic Log

Devon Energy Production Company, LP

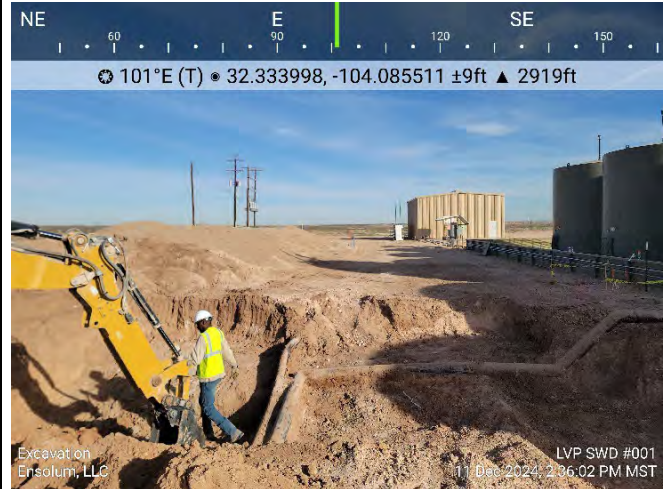
LVP SWD #001

Incident Number: nAPP2422877091



Photograph 29
Description: Excavation
View: Northeast

Date: 12/11/2024



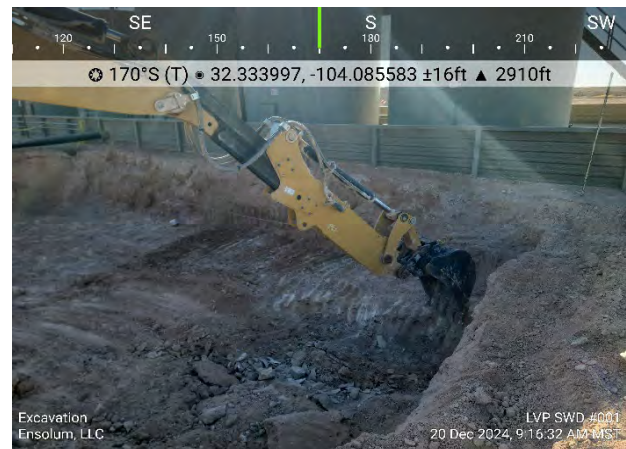
Photograph 30
Description: Excavation
View: East

Date: 12/11/2024



Photograph 31
Description: Excavation
View: East

Date: 12/20/2024



Photograph 32
Description: Excavation
View: South

Date: 12/20/2024



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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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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	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	08/26/24	08/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.8 %	70-130	08/26/24	08/26/24	
<i>Surrogate: Toluene-d8</i>		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	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	08/26/24	08/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.8 %	70-130	08/26/24	08/26/24	
<i>Surrogate: Toluene-d8</i>		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	
<i>Surrogate: n-Nonane</i>		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	



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

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
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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														Remarks											
Sample Information																									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals										
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>J. H.</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>J. H.</u>		8-23-24	2315	<u>Highly R. Hesse</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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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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 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
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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
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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	
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	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	
Surrogate: n-Nonane	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	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<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	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
	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
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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
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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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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
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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
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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
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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
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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	
Surrogate: 4-Bromochlorobenzene-PID	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	
Surrogate: 1-Chloro-4-fluorobenzene-FID	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	
Surrogate: n-Nonane	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 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
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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
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 - 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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
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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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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 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
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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
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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	
Surrogate: 4-Bromochlorobenzene-PID	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	
Surrogate: 1-Chloro-4-fluorobenzene-FID	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	
Surrogate: n-Nonane	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
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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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<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	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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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		0058-0007				<input checked="" type="checkbox"/>					
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				SS05-01		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: <input checked="" type="checkbox"/> Y / 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.																	



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		Job Number						X					
Project Manager: Ashley Gioveno				City, State, Zip: Hobbs NM, 88240		E 409120 010580007											
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/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, 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																	
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

[illegible]

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

Date Reported: 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,

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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
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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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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
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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
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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	
Surrogate: 4-Bromochlorobenzene-PID	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	
Surrogate: 1-Chloro-4-fluorobenzene-FID	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	
Surrogate: n-Nonane	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
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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	
Surrogate: 4-Bromochlorobenzene-PID	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	
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)	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	
Surrogate: n-Nonane	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
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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	
Surrogate: 4-Bromochlorobenzene-PID	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	
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	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
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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
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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

[illegible]

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,

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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	10/17/24 08:17

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
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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
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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
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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
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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: E410117-02 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 #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
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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
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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		Job Number				01058-0007					
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240								X					
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/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
1005	10/10/24	S	1	SS08A-3'		1						X					
1419	10/10/24	S	1	SS10-3'		2						X					
1447	10/10/24	S	1	SS10A-3'		3						X					
1312	10/10/24	S	1	BH01-4'		4						X					
1120	10/10/24	S	1	BH02-3'		5						X					
1609	10/10/24	S	1	BH03-4'		6						X					
1630	10/10/24	S	1	BH03-4.5'		7						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dv.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. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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

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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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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
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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
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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

Page 1 of 1

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 #1				Address: 205 E Bender Road #150				E41017		01058-007								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				
0921	10/10/24	S	1	SS ^{CH} 5508A-2'		1						X												Mostly Rock must pulverize			
1425	10/10/24	S	1	SS10A-2'		2						X															
1355	10/10/24	S	1	SS10-2'		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, bdeal@ensolum.com, bsimmons@ensolum.com, igonzales@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 10:09:38AM

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.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: LVP SWD #1

Work Order: E412050

Job Number: 01058-0007

Received: 12/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/10/24

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

Date Reported: 12/10/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: LVP SWD #1
Workorder: E412050
Date Received: 12/9/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/9/2024 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
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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	12/10/24 11:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 4.5'	E412050-01A	Soil	12/05/24	12/09/24	Glass Jar, 2 oz.
SW01 - 0-4'	E412050-02A	Soil	12/05/24	12/09/24	Glass Jar, 2 oz.
SW02 - 0-4'	E412050-03A	Soil	12/05/24	12/09/24	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: 12/10/2024 11:39:32AM
---	--	------------------------------------

FS01 - 4.5'

E412050-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2450008	
Benzene	ND	0.0250	1	12/09/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/09/24	12/10/24	
Toluene	ND	0.0250	1	12/09/24	12/10/24	
o-Xylene	ND	0.0250	1	12/09/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/09/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/09/24	12/10/24	
Surrogate: 4-Bromochlorobenzene-PID	109 %	70-130		12/09/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2450008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		12/09/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2450003	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/24	12/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/24	12/09/24	
Surrogate: n-Nonane	108 %	50-200		12/09/24	12/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2450014	
Chloride	583	20.0	1	12/09/24	12/09/24	



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:
12/10/2024 11:39:32AM

SW01 - 0-4'

E412050-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2450008	
Benzene	ND	0.0250	1	12/09/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/09/24	12/10/24	
Toluene	ND	0.0250	1	12/09/24	12/10/24	
o-Xylene	ND	0.0250	1	12/09/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/09/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/09/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	12/09/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2450008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	12/09/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2450003	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/24	12/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/24	12/09/24	
<i>Surrogate: n-Nonane</i>						
		113 %	50-200	12/09/24	12/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2450014	
Chloride	414	20.0	1	12/09/24	12/09/24	



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:
12/10/2024 11:39:32AM

SW02 - 0-4'

E412050-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2450008	
Benzene	ND	0.0250	1	12/09/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/09/24	12/10/24	
Toluene	ND	0.0250	1	12/09/24	12/10/24	
o-Xylene	ND	0.0250	1	12/09/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/09/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/09/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	109 %	70-130		12/09/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2450008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/09/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		12/09/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2450003	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/09/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/09/24	12/10/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		12/09/24	12/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2450014	
Chloride	3020	40.0	2	12/09/24	12/09/24	



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	12/10/2024 11:39:32AM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2450008-BLK1) Prepared: 12/09/24 Analyzed: 12/10/24

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	8.93		8.00		112	70-130			

LCS (2450008-BS1) Prepared: 12/09/24 Analyzed: 12/10/24

Benzene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	4.60	0.0250	5.00		91.9	70-130			
Toluene	4.70	0.0250	5.00		93.9	70-130			
o-Xylene	4.59	0.0250	5.00		91.9	70-130			
p,m-Xylene	9.34	0.0500	10.0		93.4	70-130			
Total Xylenes	13.9	0.0250	15.0		92.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.93		8.00		112	70-130			

LCS Dup (2450008-BSD1) Prepared: 12/09/24 Analyzed: 12/10/24

Benzene	4.69	0.0250	5.00		93.8	70-130	1.63	20	
Ethylbenzene	4.53	0.0250	5.00		90.6	70-130	1.47	20	
Toluene	4.62	0.0250	5.00		92.4	70-130	1.58	20	
o-Xylene	4.53	0.0250	5.00		90.6	70-130	1.42	20	
p,m-Xylene	9.21	0.0500	10.0		92.1	70-130	1.47	20	
Total Xylenes	13.7	0.0250	15.0		91.6	70-130	1.45	20	
Surrogate: 4-Bromochlorobenzene-PID	8.88		8.00		111	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	12/10/2024 11:39:32AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450008-BLK1) Prepared: 12/09/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.22		8.00		103	70-130			

LCS (2450008-BS2) Prepared: 12/09/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			

LCS Dup (2450008-BSD2) Prepared: 12/09/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		84.0	70-130	4.35	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.31		8.00		104	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	12/10/2024 11:39:32AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450003-BLK1)					Prepared: 12/09/24 Analyzed: 12/09/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.0		50.0		110	50-200			

LCS (2450003-BS1)					Prepared: 12/09/24 Analyzed: 12/09/24				
Diesel Range Organics (C10-C28)	284	25.0	250		114	38-132			
Surrogate: n-Nonane	57.8		50.0		116	50-200			

Matrix Spike (2450003-MS1)					Source: E412049-06		Prepared: 12/09/24 Analyzed: 12/09/24		
Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	60.1		50.0		120	50-200			

Matrix Spike Dup (2450003-MSD1)					Source: E412049-06		Prepared: 12/09/24 Analyzed: 12/09/24		
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132	4.32	20	
Surrogate: n-Nonane	57.9		50.0		116	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	12/10/2024 11:39:32AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450014-BLK1)					Prepared: 12/09/24 Analyzed: 12/09/24				
Chloride	ND	20.0							
LCS (2450014-BS1)					Prepared: 12/09/24 Analyzed: 12/09/24				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2450014-BSD1)					Prepared: 12/09/24 Analyzed: 12/09/24				
Chloride	258	20.0	250		103	90-110	0.384	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	12/10/24 11:39

- 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.



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Envirotech Analytical Laboratory

Printed: 12/9/2024 9:38:28AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	12/09/24 08:00	Work Order ID:	E412050
Phone:	(505) 382-1211	Date Logged In:	12/06/24 16:51	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	12/13/24 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

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

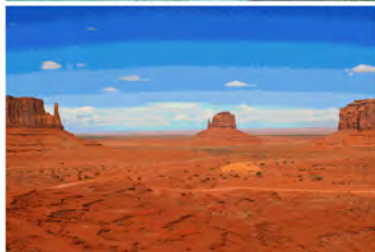
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy

Project Name: LVP. SWD #001

Work Order: E412061

Job Number: 01058-0007

Received: 12/10/2024

Revision: 4

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/17/24

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: 12/17/24

Ashley Giovengo
PO Box 6459
Navajo Dam, NM 87419



Project Name: LVP. SWD #001
Workorder: E412061
Date Received: 12/10/2024 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/10/2024 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
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Sample Summary

Devon Energy	Project Name:	LVP. SWD #001	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/17/24 08:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02-4'	E412061-01A	Soil	12/06/24	12/10/24	Glass Jar, 2 oz.
SW04- 0-4'	E412061-02A	Soil	12/06/24	12/10/24	Glass Jar, 2 oz.



Project Name: LVP. SWD #001

Workorder:E412061

Date Received: 12/10/24 07:00

The client requested the following sample(s) to be re-extracted and re-analyzed:

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Analysis</u>
FS03-4'	E412061-01	Chloride 300.00

The analytical test results summarized in this revised report represent this re-extraction and re-analysis.

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

Respectfully,

Walter Hinchman

Sample Data

Devon Energy	Project Name:	LVP. SWD #001	Reported: 12/17/2024 8:29:24AM
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	

FS02-4'**E412061-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2450020	
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
Surrogate: 4-Bromochlorobenzene-PID	86.5 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2450020	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.7 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2450024	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
Surrogate: n-Nonane	115 %	50-200		12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2450073	
Chloride	739	20.0	1	12/12/24	12/12/24	



Sample Data

Devon Energy
PO Box 6459
Navajo Dam NM, 87419

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

Reported:
12/17/2024 8:29:24AM

SW04- 0-4'

E412061-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2450020	
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.7 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2450020	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2450024	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		12/10/24	12/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2450029	
Chloride	494	20.0	1	12/10/24	12/10/24	



QC Summary Data

Devon Energy	Project Name:	LVP. SWD #001	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/17/2024 8:29:24AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450020-BLK1) Prepared: 12/10/24 Analyzed: 12/10/24

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	6.82		8.00		85.2	70-130			

LCS (2450020-BS1) Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	4.52	0.0250	5.00		90.4	70-130			
Ethylbenzene	4.35	0.0250	5.00		87.0	70-130			
Toluene	4.46	0.0250	5.00		89.1	70-130			
o-Xylene	4.37	0.0250	5.00		87.3	70-130			
p,m-Xylene	8.86	0.0500	10.0		88.6	70-130			
Total Xylenes	13.2	0.0250	15.0		88.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.84		8.00		85.5	70-130			

Matrix Spike (2450020-MS1) Source: E412060-04 Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133			
Toluene	5.00	0.0250	5.00	ND	100	61-130			
o-Xylene	4.87	0.0250	5.00	ND	97.5	63-131			
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.93		8.00		86.6	70-130			

Matrix Spike Dup (2450020-MSD1) Source: E412060-04 Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	4.91	0.0250	5.00	ND	98.1	54-133	3.02	20	
Ethylbenzene	4.74	0.0250	5.00	ND	94.7	61-133	3.21	20	
Toluene	4.84	0.0250	5.00	ND	96.8	61-130	3.23	20	
o-Xylene	4.73	0.0250	5.00	ND	94.6	63-131	3.01	20	
p,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131	3.22	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.8	63-131	3.15	20	
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.9	70-130			



QC Summary Data

Devon Energy	Project Name:	LVP. SWD #001	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/17/2024 8:29:24AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450020-BLK1) Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			

LCS (2450020-BS2) Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0		80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

Matrix Spike (2450020-MS2) Source: E412060-04 Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

Matrix Spike Dup (2450020-MSD2) Source: E412060-04 Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	40.2	20.0	50.0	ND	80.3	70-130	4.78	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			



QC Summary Data

Devon Energy	Project Name:	LVP. SWD #001	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/17/2024 8:29:24AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450024-BLK1)					Prepared: 12/10/24 Analyzed: 12/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.9		50.0		108	50-200			

LCS (2450024-BS1)					Prepared: 12/10/24 Analyzed: 12/10/24				
Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike (2450024-MS1)					Source: E412063-03		Prepared: 12/10/24 Analyzed: 12/10/24		
Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	57.3		50.0		115	50-200			

Matrix Spike Dup (2450024-MSD1)					Source: E412063-03		Prepared: 12/10/24 Analyzed: 12/10/24		
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132	3.23	20	
Surrogate: n-Nonane	58.3		50.0		117	50-200			



QC Summary Data

Devon Energy	Project Name:	LVP. SWD #001	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/17/2024 8:29:24AM

Anions by EPA 300.0/9056A

Analyst: AK

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

Blank (2450029-BLK1)					Prepared: 12/10/24 Analyzed: 12/10/24				
Chloride	ND	20.0							
LCS (2450029-BS1)					Prepared: 12/10/24 Analyzed: 12/10/24				
Chloride	255	20.0	250		102	90-110			
LCS Dup (2450029-BSD1)					Prepared: 12/10/24 Analyzed: 12/10/24				
Chloride	254	20.0	250		102	90-110	0.158	20	



QC Summary Data

Devon Energy	Project Name:	LVP. SWD #001	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/17/2024 8:29:24AM

Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450073-BLK1)					Prepared: 12/12/24 Analyzed: 12/12/24				
Chloride	ND	20.0							
LCS (2450073-BS1)					Prepared: 12/12/24 Analyzed: 12/12/24				
Chloride	254	20.0	250		102	90-110			
LCS Dup (2450073-BSD1)					Prepared: 12/12/24 Analyzed: 12/12/24				
Chloride	255	20.0	250		102	90-110	0.0904	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	Project Name:	LVP. SWD #001	
PO Box 6459	Project Number:	01058-0007	Reported:
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/17/24 08:29

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 12/10/2024 9:06:33AM

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	Date Received:	12/10/24 07:00	Work Order ID:	E412061
Phone:	(505)324-5600	Date Logged In:	12/09/24 15:11	Logged In By:	Caitlin Mars
Email:		Due Date:	12/16/24 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: E412076

Job Number: 01058-0007

Received: 12/11/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/20/24

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: 12/20/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: LVP SWD #001
Workorder: E412076
Date Received: 12/11/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/11/2024 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
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Cell: 775-287-1762
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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	12/20/24 09:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW03 - 0-4'	E412076-01A	Soil	12/09/24	12/11/24	Glass Jar, 2 oz.
FS03 - 4'	E412076-02A	Solid	12/09/24	12/11/24	Glass Jar, 2 oz.
FS04 - 4'	E412076-03A	Solid	12/09/24	12/11/24	Glass Jar, 2 oz.
FS05 - 4'	E412076-04A	Solid	12/09/24	12/11/24	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: 12/20/2024 9:38:15AM
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SW03 - 0-4'
E412076-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2450054	
Benzene	ND	0.0250	1	12/11/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/11/24	12/11/24	
Toluene	ND	0.0250	1	12/11/24	12/11/24	
o-Xylene	ND	0.0250	1	12/11/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/11/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/11/24	12/11/24	
Surrogate: 4-Bromochlorobenzene-PID	94.2 %	70-130		12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2450054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.8 %	70-130		12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2450049	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/24	12/11/24	
Surrogate: n-Nonane	102 %	50-200		12/11/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2450055	
Chloride	6330	100	5	12/11/24	12/12/24	



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:
12/20/2024 9:38:15AM

FS03 - 4'

E412076-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2450054	
Benzene	ND	0.0250	1	12/11/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/11/24	12/11/24	
Toluene	ND	0.0250	1	12/11/24	12/11/24	
o-Xylene	ND	0.0250	1	12/11/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/11/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/11/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2450054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2450049	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/24	12/11/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		12/11/24	12/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2450055	
Chloride	273	20.0	1	12/11/24	12/12/24	



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:
12/20/2024 9:38:15AM

FS04 - 4'

E412076-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2450054	
Benzene	ND	0.0250	1	12/11/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/11/24	12/11/24	
Toluene	ND	0.0250	1	12/11/24	12/11/24	
o-Xylene	ND	0.0250	1	12/11/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/11/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/11/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2450054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2450049	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/24	12/11/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		12/11/24	12/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2450055	
Chloride	98.1	20.0	1	12/11/24	12/12/24	



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: 12/20/2024 9:38:15AM
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FS05 - 4'

E412076-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2450054	
Benzene	ND	0.0250	1	12/11/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/11/24	12/11/24	
Toluene	ND	0.0250	1	12/11/24	12/11/24	
o-Xylene	ND	0.0250	1	12/11/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/11/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/11/24	12/11/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2450054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2450049	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/24	12/11/24	
Surrogate: n-Nonane	99.7 %	50-200		12/11/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2450055	
Chloride	111	20.0	1	12/11/24	12/12/24	



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	12/20/2024 9:38:15AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450054-BLK1) Prepared: 12/11/24 Analyzed: 12/11/24

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	7.54		8.00		94.2	70-130			

LCS (2450054-BS1) Prepared: 12/11/24 Analyzed: 12/11/24

Benzene	4.98	0.0250	5.00		99.7	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.97	0.0250	5.00		99.4	70-130			
o-Xylene	4.93	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2450054-MS1) Source: E412076-02 Prepared: 12/11/24 Analyzed: 12/11/24

Benzene	5.14	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.05	0.0250	5.00	ND	101	61-133			
Toluene	5.12	0.0250	5.00	ND	102	61-130			
o-Xylene	5.08	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike Dup (2450054-MSD1) Source: E412076-02 Prepared: 12/11/24 Analyzed: 12/11/24

Benzene	5.45	0.0250	5.00	ND	109	54-133	5.85	20	
Ethylbenzene	5.37	0.0250	5.00	ND	107	61-133	6.13	20	
Toluene	5.43	0.0250	5.00	ND	109	61-130	5.86	20	
o-Xylene	5.39	0.0250	5.00	ND	108	63-131	5.95	20	
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131	5.85	20	
Total Xylenes	16.3	0.0250	15.0	ND	109	63-131	5.88	20	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	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	12/20/2024 9:38:15AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450054-BLK1) Prepared: 12/11/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130			

LCS (2450054-BS2) Prepared: 12/11/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike (2450054-MS2) Source: E412076-02 Prepared: 12/11/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	70-130			

Matrix Spike Dup (2450054-MSD2) Source: E412076-02 Prepared: 12/11/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.5	70-130	0.424	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	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	12/20/2024 9:38:15AM

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
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Blank (2450049-BLK1) Prepared: 12/11/24 Analyzed: 12/11/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2450049-BS1) Prepared: 12/11/24 Analyzed: 12/11/24

Diesel Range Organics (C10-C28)	248	25.0	250		99.4	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

LCS Dup (2450049-BSD1) Prepared: 12/11/24 Analyzed: 12/11/24

Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132	5.56	20	
Surrogate: n-Nonane	55.9		50.0		112	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	12/20/2024 9:38:15AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450055-BLK1)					Prepared: 12/11/24 Analyzed: 12/11/24				
Chloride	ND	20.0							
LCS (2450055-BS1)					Prepared: 12/11/24 Analyzed: 12/11/24				
Chloride	256	20.0	250		102	90-110			
LCS Dup (2450055-BSD1)					Prepared: 12/11/24 Analyzed: 12/11/24				
Chloride	257	20.0	250		103	90-110	0.186	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	12/20/24 09:38

- 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 Energy				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX				
Project: LVP SWD #001				Address: 5315 Buena Vista Dr				E412076		01058-0057					x	x							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																			
Address: 3122 National Parks Hwy				Phone: (575)689-7597																			
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com																			
Phone: 575-988-0055				Miscellaneous: Jim Raley																			
Email: agiovengo@ensolum.com																							
												Analysis and Method				EPA Program							
												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	
																				Compliance	Y	or	N
																				PWSID #			
Sample Information												Remarks											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number																
10:18	12/9/2024	S	1	SW02 - 0-4'			1							X									
10:22	12/9/2024	Sd	1	FS03 - 4'			2							X									
10:28	12/9/2024	Sd	1	FS04 - 4'			3							X									
10:33	12/9/2024	Sd	1	FS05 - 4'			4							X									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@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: 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.																	
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: 12/11/2024 9:04:19AM

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:	12/11/24 08:00	Work Order ID:	E412076
Phone:	(505) 382-1211	Date Logged In:	12/10/24 14:13	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	12/17/24 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

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

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

Date



envirotech Inc.

Page 16 of 16

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: LVP SWD #001

Work Order: E412108

Job Number: 01058-0007

Received: 12/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/17/24

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: 12/17/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: LVP SWD #001
Workorder: E412108
Date Received: 12/13/2024 8:00:04AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/13/2024 8:00:04AM, 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,

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Cell: 775-287-1762
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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	12/17/24 08:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW05 - 0-4'	E412108-01A	Soil	12/11/24	12/13/24	Glass Jar, 2 oz.
FS06 - 3'	E412108-02A	Soil	12/11/24	12/13/24	Glass Jar, 2 oz.
FS07 - 3'	E412108-03A	Soil	12/11/24	12/13/24	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:
12/17/2024 8:07:35AM

SW05 - 0-4'

E412108-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2450127	
Benzene	ND	0.0250	1	12/13/24	12/14/24	
Ethylbenzene	ND	0.0250	1	12/13/24	12/14/24	
Toluene	ND	0.0250	1	12/13/24	12/14/24	
o-Xylene	ND	0.0250	1	12/13/24	12/14/24	
p,m-Xylene	ND	0.0500	1	12/13/24	12/14/24	
Total Xylenes	ND	0.0250	1	12/13/24	12/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.0 %	70-130	12/13/24	12/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2450127	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/13/24	12/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	12/13/24	12/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2450123	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/24	12/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/24	12/14/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	12/13/24	12/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2450132	
Chloride	163	20.0	1	12/13/24	12/14/24	



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: 12/17/2024 8:07:35AM
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FS06 - 3'

E412108-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2450127	
Benzene	ND	0.0250	1	12/13/24	12/14/24	
Ethylbenzene	ND	0.0250	1	12/13/24	12/14/24	
Toluene	ND	0.0250	1	12/13/24	12/14/24	
o-Xylene	ND	0.0250	1	12/13/24	12/14/24	
p,m-Xylene	ND	0.0500	1	12/13/24	12/14/24	
Total Xylenes	ND	0.0250	1	12/13/24	12/14/24	
Surrogate: 4-Bromochlorobenzene-PID	86.5 %	70-130		12/13/24	12/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2450127	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/13/24	12/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.1 %	70-130		12/13/24	12/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2450123	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/24	12/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/24	12/14/24	
Surrogate: n-Nonane	131 %	50-200		12/13/24	12/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2450132	
Chloride	301	20.0	1	12/13/24	12/14/24	



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: 12/17/2024 8:07:35AM
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FS07 - 3'

E412108-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2450127	
Benzene	ND	0.0250	1	12/13/24	12/15/24	
Ethylbenzene	ND	0.0250	1	12/13/24	12/15/24	
Toluene	ND	0.0250	1	12/13/24	12/15/24	
o-Xylene	ND	0.0250	1	12/13/24	12/15/24	
p,m-Xylene	ND	0.0500	1	12/13/24	12/15/24	
Total Xylenes	ND	0.0250	1	12/13/24	12/15/24	
Surrogate: 4-Bromochlorobenzene-PID	86.3 %	70-130		12/13/24	12/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2450127	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/13/24	12/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		12/13/24	12/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2450123	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/24	12/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/24	12/14/24	
Surrogate: n-Nonane	115 %	50-200		12/13/24	12/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2450132	
Chloride	159	20.0	1	12/13/24	12/14/24	



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	12/17/2024 8:07:35AM

Volatile Organics by EPA 8021B

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
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Blank (2450127-BLK1)

Prepared: 12/13/24 Analyzed: 12/14/24

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	6.70		8.00		83.7	70-130			

LCS (2450127-BS1)

Prepared: 12/13/24 Analyzed: 12/14/24

Benzene	4.85	0.0250	5.00		97.0	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.6	70-130			
Toluene	4.76	0.0250	5.00		95.2	70-130			
o-Xylene	4.62	0.0250	5.00		92.4	70-130			
p,m-Xylene	9.41	0.0500	10.0		94.1	70-130			
Total Xylenes	14.0	0.0250	15.0		93.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.80		8.00		85.0	70-130			

LCS Dup (2450127-BSD1)

Prepared: 12/13/24 Analyzed: 12/14/24

Benzene	4.91	0.0250	5.00		98.2	70-130	1.17	20	
Ethylbenzene	4.70	0.0250	5.00		93.9	70-130	1.37	20	
Toluene	4.81	0.0250	5.00		96.3	70-130	1.17	20	
o-Xylene	4.68	0.0250	5.00		93.6	70-130	1.23	20	
p,m-Xylene	9.54	0.0500	10.0		95.4	70-130	1.31	20	
Total Xylenes	14.2	0.0250	15.0		94.8	70-130	1.28	20	
Surrogate: 4-Bromochlorobenzene-PID	6.81		8.00		85.1	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	12/17/2024 8:07:35AM

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
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Blank (2450127-BLK1) Prepared: 12/13/24 Analyzed: 12/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

LCS (2450127-BS2) Prepared: 12/13/24 Analyzed: 12/14/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

LCS Dup (2450127-BSD2) Prepared: 12/13/24 Analyzed: 12/14/24

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0		81.5	70-130	2.54	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	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	12/17/2024 8:07:35AM

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
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Blank (2450123-BLK1) Prepared: 12/13/24 Analyzed: 12/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.0		50.0		118	50-200			

LCS (2450123-BS1) Prepared: 12/13/24 Analyzed: 12/14/24

Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	55.9		50.0		112	50-200			

Matrix Spike (2450123-MS1) Source: E412100-03 Prepared: 12/13/24 Analyzed: 12/14/24

Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132			
Surrogate: n-Nonane	60.1		50.0		120	50-200			

Matrix Spike Dup (2450123-MSD1) Source: E412100-03 Prepared: 12/13/24 Analyzed: 12/14/24

Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	38-132	1.80	20	
Surrogate: n-Nonane	57.6		50.0		115	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	12/17/2024 8:07:35AM

Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450132-BLK1)					Prepared: 12/13/24 Analyzed: 12/13/24				
Chloride	ND	20.0							
LCS (2450132-BS1)					Prepared: 12/13/24 Analyzed: 12/13/24				
Chloride	255	20.0	250		102	90-110			
LCS Dup (2450132-BSD1)					Prepared: 12/13/24 Analyzed: 12/13/24				
Chloride	255	20.0	250		102	90-110	0.0624	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	12/17/24 08:07

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



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Envirotech Analytical Laboratory

Printed: 12/13/2024 11:21:03AM

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:	12/13/24 08:00	Work Order ID:	E412108
Phone:	(505) 382-1211	Date Logged In:	12/12/24 16:31	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	12/19/24 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

Samples 1, 3-6. 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: E412178

Job Number: 01058-0007

Received: 12/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/2/25

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: 1/2/25

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: LVP SWD #001
Workorder: E412178
Date Received: 12/23/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/23/2024 8:30:00AM, 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
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Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name:	LVP SWD #001	Reported: 01/02/25 14:50
	Project Number:	01058-0007	
	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02 - 4.25'	E412178-01A	Solid	12/20/24	12/23/24	Glass Jar, 4 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: 1/2/2025 2:50:40PM
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FS02 - 4.25'
E412178-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2452019	
Benzene	ND	0.0250	1	12/23/24	12/24/24	
Ethylbenzene	ND	0.0250	1	12/23/24	12/24/24	
Toluene	ND	0.0250	1	12/23/24	12/24/24	
o-Xylene	ND	0.0250	1	12/23/24	12/24/24	
p,m-Xylene	ND	0.0500	1	12/23/24	12/24/24	
Total Xylenes	ND	0.0250	1	12/23/24	12/24/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		12/23/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2452019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/24	12/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.4 %	70-130		12/23/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2452016	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/23/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/23/24	12/31/24	
Surrogate: n-Nonane	101 %	50-200		12/23/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2452015	
Chloride	76.1	20.0	1	12/23/24	12/23/24	

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	1/2/2025 2:50:40PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2452019-BLK1)

Prepared: 12/23/24 Analyzed: 12/24/24

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	7.26		8.00		90.8	70-130			

LCS (2452019-BS1)

Prepared: 12/23/24 Analyzed: 12/24/24

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.5	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.87	0.0250	5.00		97.3	70-130			
p,m-Xylene	9.88	0.0500	10.0		98.8	70-130			
Total Xylenes	14.7	0.0250	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			

LCS Dup (2452019-BSD1)

Prepared: 12/23/24 Analyzed: 12/24/24

Benzene	5.17	0.0250	5.00		103	70-130	1.36	20	
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130	1.11	20	
Toluene	5.06	0.0250	5.00		101	70-130	1.27	20	
o-Xylene	4.92	0.0250	5.00		98.4	70-130	1.17	20	
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130	1.05	20	
Total Xylenes	14.9	0.0250	15.0		99.4	70-130	1.09	20	
Surrogate: 4-Bromochlorobenzene-PID	7.06		8.00		88.2	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	1/2/2025 2:50:40PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2452019-BLK1) Prepared: 12/23/24 Analyzed: 12/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

LCS (2452019-BS2) Prepared: 12/23/24 Analyzed: 12/24/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			

LCS Dup (2452019-BSD2) Prepared: 12/23/24 Analyzed: 12/24/24

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.4	70-130	1.04	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	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	1/2/2025 2:50:40PM

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
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Blank (2452016-BLK1) Prepared: 12/23/24 Analyzed: 12/31/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.8		50.0		106	50-200			

LCS (2452016-BS1) Prepared: 12/23/24 Analyzed: 12/31/24

Diesel Range Organics (C10-C28)	278	25.0	250		111	38-132			
Surrogate: n-Nonane	52.2		50.0		104	50-200			

Matrix Spike (2452016-MS1) Source: E412176-03 Prepared: 12/23/24 Analyzed: 01/02/25

Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	55.0		50.0		110	50-200			

Matrix Spike Dup (2452016-MSD1) Source: E412176-03 Prepared: 12/23/24 Analyzed: 01/02/25

Diesel Range Organics (C10-C28)	301	25.0	250	ND	121	38-132	16.5	20	
Surrogate: n-Nonane	62.1		50.0		124	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	1/2/2025 2:50:40PM

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 (2452015-BLK1)					Prepared: 12/23/24 Analyzed: 12/23/24				
Chloride	ND	20.0							
LCS (2452015-BS1)					Prepared: 12/23/24 Analyzed: 12/23/24				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2452015-BSD1)					Prepared: 12/23/24 Analyzed: 12/23/24				
Chloride	255	20.0	250		102	90-110	0.872	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	01/02/25 14:50

- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 12/23/2024 9:10:31AM

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	Date Received:	12/23/24 08:30	Work Order ID:	E412178
Phone:	(505)324-5600	Date Logged In:	12/23/24 09:05	Logged In By:	Noe Soto
Email:		Due Date:	01/02/25 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.



APPENDIX E

NMOCD Correspondence

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 407823

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 407823
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

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

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,020
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/05/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton at 575-706-5056
Please provide any information necessary for navigation to sampling site	32.3330917, -104.0850372

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 407823

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 407823
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/3/2024

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

QUESTIONS

Action 407830

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 407830
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

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

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,020
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/06/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton at 575-706-5056
Please provide any information necessary for navigation to sampling site	32.3330917, -104.0850372

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Phone: (505) 476-3441

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

CONDITIONS

Action 407830

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 407830
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/3/2024

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 407834

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 407834
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

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

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,020
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/09/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton at 575-706-5056
Please provide any information necessary for navigation to sampling site	32.3330917, -104.0850372

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 407834

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 407834
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/3/2024

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

QUESTIONS

Action 407836

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 407836
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

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

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,020
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/10/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton at 575-706-5056
Please provide any information necessary for navigation to sampling site	32.3330917, -104.0850372

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 407836

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 407836
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/3/2024

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

QUESTIONS

Action 409990

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 409990
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

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

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	973
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/11/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.3330917, -104.0850372

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 409990

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 409990
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/9/2024

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Phone: (505) 476-3441

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Phone: (505) 629-6116

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

QUESTIONS

Action 409937

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 409937
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

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

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	973
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/10/2024
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.3330917, -104.0850372

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 409937

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 409937
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/9/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 413062

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413062
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

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

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	400
What is the estimated number of samples that will be gathered	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/20/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.3330917, -104.0850372

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 413062

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413062
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/17/2024

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 418500

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 418500
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2422877091
Incident Name	NAPP2422877091 LVP SWD #001 @ 30-015-42234
Incident Type	Produced Water Release
Incident Status	Deferral Request 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

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

QUESTIONS, Page 2

Action 418500

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 418500
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 08/22/2024
--	--

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 418500

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number: 418500
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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
<i>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.</i>	
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	12/05/2024
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)	12/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	1368
What is the estimated volume (in cubic yards) that will be reclaimed	337
What is the estimated surface area (in square feet) that will be remediated	1368
What is the estimated volume (in cubic yards) that will be remediated	337

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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

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Action 418500

QUESTIONS (continued)

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	Action Number: 418500
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
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@dvn.com Date: 01/08/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 418500

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 418500
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Lined secondary containment, production tanks and associated production pipping.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	6337
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	1056
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-42234 LVP SWD #001
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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: 01/08/2025

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Action 418500

QUESTIONS (continued)

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	Action Number: 418500
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	413062
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/20/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 418500

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 418500
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	4/7/2025