



DEFERRAL REQUEST

DEVON ENERGY COMPANY

Created for submission to New Mexico Oil Conservation Division on 02/24/2022

ASHLEY GIOVENGO

Environmental Manager - Permian

ENERGIZING AMERICA

February 24, 2022

Bradford Billings, Robert Hamlet, Jennifer Nobui, Nelson Velez and/or Chad Hensley

State of New Mexico

Energy, Minerals, and Natural Resources

New Mexico Oil Conservation Division

811 South First Street

Artesia, New Mexico 88210

RE: DEFERRAL REQUEST

COMPANY	Devon Energy
LOCATION	LVP SWD #001
API	30-015-42234
PLSS	Unit I Sec 04 T23S R28E
GPS	32.3330917, -104.0850372
INCIDENT ID	nAPP2134137036

BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Deferral Request on behalf of Devon Energy Company, hereafter referred to as Devon, regarding the release at the LVP SWD #001 (Site) located in Unit I, Section 04, Township 23 South and Range 28 East in Eddy County, New Mexico. The GPS coordinates are as follows: North 32.3330917 and West -104.0850372. Surface owner of the Site is Private Land. The Site falls within New Mexico Oil Conservation Division (NMOCD), District 2 Artesia.

On December 01, 2021, a power outage occurred which caused a produced water tank to overflow inside the lined secondary containment. The volume of the tank overflow was 20 barrels (bbls) of produced water. A total of 20 bbls was recovered from the containment. On January 13, 2022, Wescom inspected the lined secondary containment, and found three potential points of release. Wescom personnel returned to the Site on February 04, 2022, to conduct delineation sampling.

SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates the nearest depth to groundwater measurement is 20 feet below ground surface (bgs) and is 0.30 miles Southwest of the Site. Additional wells in the area support the data in the nearest water measurement. No playas or lakes are located within a one-mile radius of this Site (Attachment C).



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KARST POTENTIAL

According to data from the Bureau of Land Management, this Site is located within medium karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

TARGET REMEDIAL LEVELS

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. The applicable Recommended Remediation Action Levels (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and xylene (BTEX) and 100 ppm Total Petroleum Hydrocarbons (TPH). Characterization of the vertical and horizontal extent of chloride concentration in the soil to a level of 600 mg/kg (ppm) is also required.

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
LVP SWD #001 — 32.3330917, -104.0850372						
Depth to Groundwater		Closure Criteria (unites in mg/kg)				
		Chloride * numerical limit or background, whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
less than 50 ft bgs	20	600	100		50	10
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs		20000	2500	1000	50	10
Surface Water	Yes or No	If yes, then				
< 300 feet from continuously flowing watercourse or other significant watercourse?	No					
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics



SITE ASSESTMENT AND DELINEATION

Wescom personnel conducted a liner inspection on January 13, 2022, and three potential release points were identified within containment; a gap in the liner was located ten feet to the right of the West Load line and a gap in the liner was located six feet to the West of the central load line. An additional liner gap was located 36.5 feet from the Southeast corner of the containment. Photo documentation of potential liner compromise are shown in Attachment B. The results of the inspection determined that delineation activities would be required.

Wescom personnel conducted horizontal and vertical delineation sampling on February 04, 2022. All sample laboratory data analysis results are presented in Table 1 and samples locations are shown on Figure 1. Samples collected from outside the containment wall were all below the applicable RRAL for the Site. Sample CONF05 was collected from the liner gap located ten feet to the right of the West load line and sample CONF06 was collected from the liner gap located six feet to the West of the central load line. CONF07 was collected from the liner gap located 36.5 feet from the southeast corner of the containment. Laboratory analysis results for samples CONF05 and CONF07 were below the Site RRALs at one-foot bgs, CONF06 results were below RRALs at two feet bgs. All three gaps in the liner were patched by Rose Gold Oil Field Services immediately following sampling.

A background sampled BG01, was collected 50 ft to the Northwest of the Site. Confirmation composite samples were obtained from the Site on February 04, 2022. All soil samples were properly packaged, preserved, and transported to Envirotech Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH—Method 8015M/D, BTEX—Method 8021B, and Chlorides—Method 300.0. The results are presented in Table 1, laboratory analytical reports are included in Attachment E and locations of samples are shown on Figure 1.

The required 48-hour liner inspection and confirmation sampling notifications were sent on January 10 and February 02, 2022, to Victoria Venegas, Robert Hamlet, Chad Hensley and Mike Bratcher with the NMOCD in Santa Fe, New Mexico (see Attachments F and G).

REQUEST FOR DEFERRAL

On behalf of Devon, Wescom requests to defer approximately 103 cubic yards of contaminated soil until the LVP SWD #001 well is plugged and abandoned and reclamation activities commence based on the logic below. Area requested for deferral is shown in Figure 1.

- All confirmation areas meet the RRALs, except CONF05, CONF06 and CONF07 (see Table 1 and Figure 1) which are located within the area of requested deferral.
- Due to the location of the contaminated soil, it is not practical to remove for remediation. Production equipment inside the containment is currently active and would require shutting in the well for an extended period in order to remove substrate beneath the containment.



- The existing containment is intact, gaps in the liner have been patched by Rose Gold Oil Field Services. The liner will act as a barrier for potential releases inside the secondary containment.

If you have any questions or comments, please do not hesitate to call Mrs. Ashley Giovengo at (505) 382-1211.

Sincerely,

Wescom, Inc.

Ashley Giovengo

Environmental Manager-Permian

cc: Jim Raley, Devon Energy
Bradford Billings, NMOCD
Robert Hamlet, NMOCD
Chad Hensley, NMOCD
Jennifer Nobui, NMOCD
Nelson Velez, NMOCD



REFERENCE MATERIALS

FIGURES

FIGURE 1. Confirmation Samples

TABLES

TABLE 1. Laboratory Analysis Results: Confirmation Samples

ATTACHMENTS

ATTACHMENT A. C-141

ATTACHMENT B. Site Photos

ATTACHMENT C. Closure Criteria Supporting Documents

ATTACHMENT D. Karst Map

ATTACHMENT E. Envirotech Inc. Laboratory Analysis Reports

ATTACHMENT F. 48-hour Liner Inspection Notification Email

ATTACHMENT G. 48-hour Confirmation Sampling Notification Email



FIGURE 1

Confirmation Samples



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LVP SWD #001 | Incident ID: nAPP2134137036

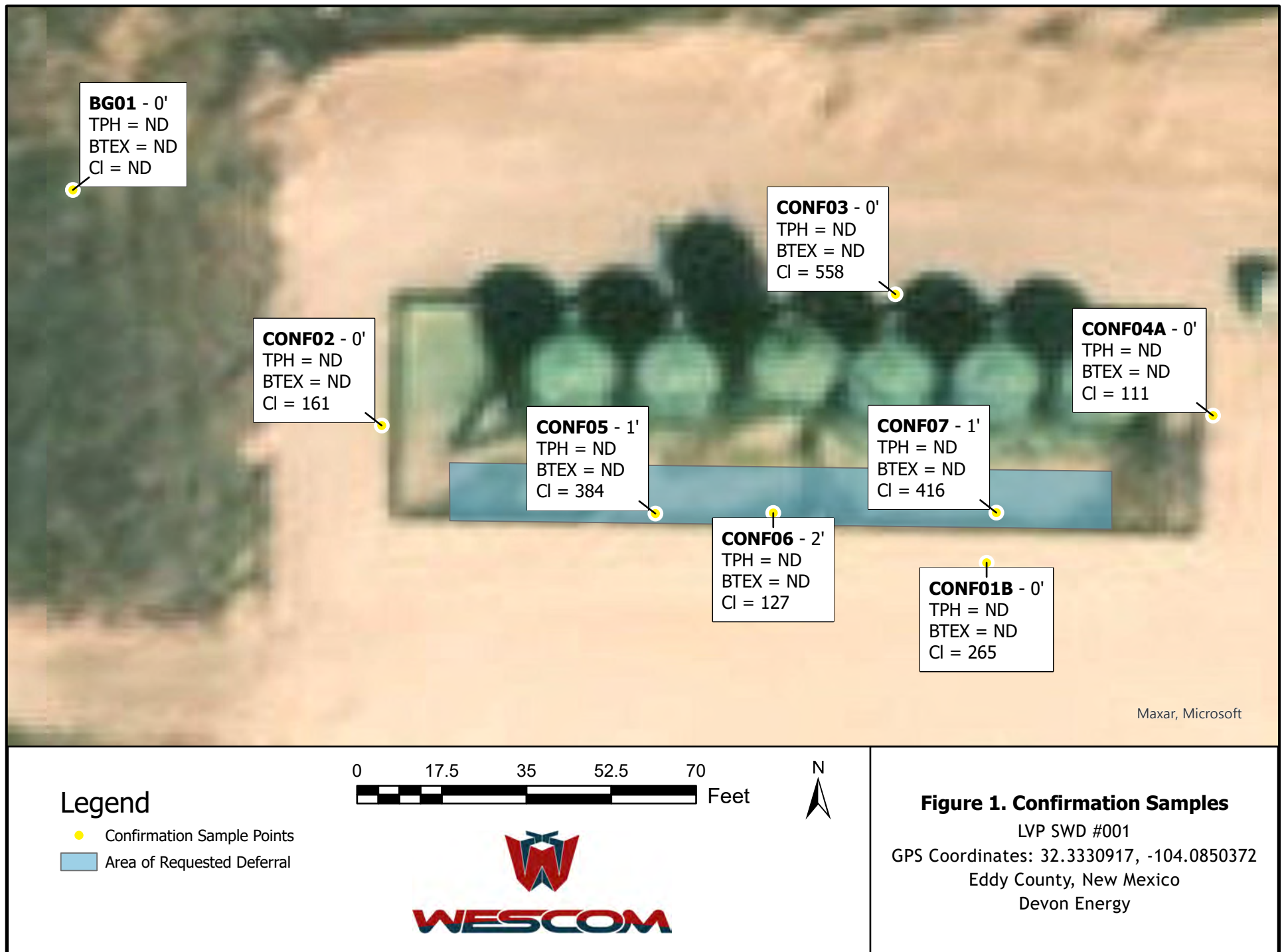


TABLE 1

Laboratory Analysis Results: Confirmation Samples



LVP SWD #001 nAPP2134137036						
Devon Energy 02.19.2022						
Table 1. Confirmation Laboratory Analysis Results						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	Total BTEX (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	100	600
BG01	0	2/4/2022	ND	ND	ND	ND
BG01	1	2/4/2022	ND	ND	ND	ND
CONF01B	0	2/4/2022	ND	ND	ND	265
CONF02	0	2/4/2022	ND	ND	ND	161
CONF03	0	2/4/2022	ND	ND	ND	558
CONF04A	0	2/4/2022	ND	ND	ND	111
CONF05	0	2/4/2022	ND	ND	ND	730
CONF05	1	2/4/2022	-	-	-	384
CONF05	2	2/4/2022	-	-	-	405
CONF06	2	2/4/2022	ND	ND	ND	127
CONF07	1	2/4/2022	ND	ND	ND	416
ABBREVIATIONS						
BTEX — Benzene, Toluene, Ethylene, Xylene			GRO — Gasoline Range Organics			
DRO — Diesel Range Organics			ND — Non-detect			
ft. — Feet			mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons						
Notes						
Bold Red - Results are above closure criteria						
Gray Highlight - Background Samples						



ATTACHMENT A

C-141



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LVP SWD #001 | Incident ID: nAPP2134137036

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2134137036
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: jim.raley@dv.com	Incident # (assigned by OCD) nAPP2134137036
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.3330917 _____ Longitude -104.0850372 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: LVP SWD #001	Site Type: Oil Production Facility
Date Release Discovered: December 1 st , 2021	API# (if applicable) 30-015-42234

Unit Letter	Section	Township	Range	County
I	04	23S	28E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls) 0	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 20
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Power outage caused tank overflow to lined secondary containment.

Volume Recovered fluids = Volume of tank overflow

Initial Response

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

Released to Imaging: 3/22/2022 3:08:51 PM

Incident ID	nAPP2134137036
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>20</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

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Incident ID	nAPP2134137036
District RP	
Facility ID	
Application ID	

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

Printed Name: Jim RaleyTitle: Environmental Specialist

Signature: _____

Date: 2/24/2022email: jim.raley@dm.comTelephone: 575-689-7597**OCD Only**

Received by: _____

Date: _____

Incident ID	nAPP2134137036
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

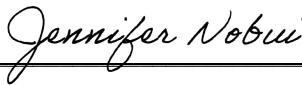
Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Jim RaleyTitle: Environmental SpecialistSignature: Date: 2/24/2022email: jim.raley@dmn.comTelephone: 575-689-7597**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature: Date: 03/22/2022

ATTACHMENT B

Site Photos



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LVP SWD #001 | Incident ID: nAPP2134137036

LVP SWD #001

Incident ID: nAPP2134137036



Site Sinage



CONF05 Sample Point

LVP SWD #001

Incident ID: nAPP2134137036



CONF06 Sample Point



CONF07 Sample Point

LVP SWD #001

Incident ID: nAPP2134137036



CONF07 Sample Point



CONF01B Sample Point

LVP SWD #001

Incident ID: nAPP2134137036



CONF04 Sample Point

ATTACHMENT C

Closure Criteria Supporting Documents



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LVP SWD #001 | Incident ID: nAPP2134137036



New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW#### in the
POD suffix indicates the
POD has been replaced &
no longer serves a water
right




















































(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

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

(NAD83 UTM in meters)

(in feet)

POD Number	Code	POD Subbasin	County	Source	q q q q	6416 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	Licens Number
C 04415 POD1		CUB	ED	Shallow	4 1 4	04	23S	28E		585657	3577591	488	04/01/2020	04/01/2020	05/26/2020	25	20	MARK MUMBY	1789
C 04415 POD5		CUB	ED		4 1 4	04	23S	28E		585652	3577605	488	04/01/2020	04/01/2020	05/26/2020	10		MARK MUMBY	1789
C 04415 POD6		CUB	ED		4 1 4	04	23S	28E		585652	3577605	488	04/01/2020	04/01/2020	05/26/2020	10		MARK MUMBY	1789
C 04415 POD8		CUB	ED	Shallow	4 1 4	04	23S	28E		585656	3577583	492	07/15/2021	07/16/2021	10/05/2021	27	23	HAMMER, RODNEY S.WARDENER	1186
C 04415 POD2		CUB	ED		4 1 4	04	23S	28E		585653	3577570	500	04/01/2020	04/01/2020	05/26/2020	12		MARK MUMBY	1789
C 04415 POD3		CUB	ED		4 1 4	04	23S	28E		585645	3577552	515	04/01/2020	04/01/2020	05/26/2020	11		MARK MUMBY	1789
C 04415 POD4		CUB	ED		3 1 4	04	23S	28E		585628	3577575	521	04/01/2020	04/01/2020	05/26/2020	11		MARK MUMBY	1789
C 04415 POD7		CUB	ED	Shallow	3 1 4	04	23S	28E		585628	3577518	545	07/15/2021	07/16/2021	10/05/2021	55	38	HAMMER, RODNEY S.WARDENER	1186
C 00800		C	ED	Shallow	4 2	09	23S	28E		586050	3576479*	1296	11/05/1957	11/10/1957	12/09/1957	200	30	WILLARD BEATY	62
C 03056		C	ED	Shallow	3 3 3	04	23S	28E		584772	3577226	1446	07/01/2004	07/02/2004	07/12/2004	60	31		1348
C 03800 POD1		C	ED	Shallow	3 3 2	05	23S	28E		583927	3577958	2191	12/01/2014	12/08/2014	10/15/2019	97	36	MALEY, JASONA STR.L.NER	1690
C 00326		CUB	ED	Shallow	3 3 3	10	23S	28E		586358	3575572*	2216	10/01/1991	10/19/1991	11/01/1991	130	19	MIKE CAMPBELL	1259
C 00326 CLW196238	O	CUB	ED	Shallow	3 3 3	10	23S	28E		586358	3575572*	2216	07/23/1952	08/06/1952	09/03/1952	196	25	J.F. KIMMELL	
C 00512		CUB	ED	Shallow	4 1 1	11	23S	28E		588188	3576775	2305	05/04/1975	05/20/1975	05/11/1976	175	15	BRININSTOOL, M.D.	24
C 00512 EXPL	O	CUB	ED	Shallow		11	23S	28E		588272	3576703*	2412	07/12/1971	07/17/1971	10/15/1971	200	16	BRININSTOOL, M.D.	24
C 03762 POD2		CUB	ED	Shallow	4 4 2	17	23S	28E		584893	3575598	2493	08/11/2014	08/11/2014	08/22/2014	40	30	BLANCO, TIMOTHY	1070
C 00315		CUB	ED	Shallow	3 1 3	11	23S	28E		587973	3575995*	2576	06/16/1952	06/20/1952	01/06/1953	100	45	J.F. KIMMELL	
C 04216 POD2		CUB	ED	Shallow	1 4 1	11	23S	28E		588465	3576555	2651	04/04/2018	04/04/2018	04/18/2018	20	10	ATKINS, JACKIE D.	1249
C 04216 POD1		CUB	ED	Shallow	2 4 1	11	23S	28E		588488	3576534	2682	04/04/2018	04/04/2018	04/18/2018	20	10	ATKINS, JACKIE D.	1249
C 04216 POD3		CUB	ED	Shallow	1 4 1	11	23S	28E		588501	3576556	2683	04/04/2018	04/04/2018	04/18/2018	23	13	ATKINS, JACKIE D.	1249
C 04216 POD4		CUB	ED	Shallow	2 4 1	11	23S	28E		588499	3576513	2701	04/04/2018	04/04/2018	04/18/2018	20	10	ATKINS, JACKIE D.	1249
C 00311		C	ED	Shallow	4 2 1	16	23S	28E		585353	3575152*	2729	06/23/1952	07/05/1952	07/17/1952	163	55	HOWARD HEMLER	24
C 04451 POD1		C	ED	Shallow	4 4 4	10	23S	28E		587833	3575521	2836	09/28/2020	10/01/2020	10/14/2020	120	57	HAMMOND, MARKDALENAIGENER	1400
C 00504		CUB	ED	Shallow	3 1 4	08	23S	28E		583939	3575949*	2836	02/27/1954	03/15/1954	05/12/1954	230	40	SMITH, SAM S.	108
C 00036		CUB	ED	Shallow	3 3 2	32	22S	28E		583916	3579583*	2843	08/02/1948	10/13/1948	11/29/1948	106			
C 00236		C	ED	Shallow	2 2 3	32	22S	28E		583723	3579372*	2872		08/07/1950	01/19/1953	80	39	KIMMEL, J.F.	153
C 00235		C	ED	Shallow	2 2	15	23S	28E		587676	3575280*	2945	07/21/1950	07/23/1950	01/05/1953	160		KIMMEL, J.F.	153
C 03184		C	ED	Shallow	2 3 3	32	22S	28E		583327	3578962*	3025	09/29/2006	10/02/2006	12/13/2006	157	30		1348
C 03455 POD1		C	ED	Shallow	3 3 1	05	23S	28E		583040	3577899	3072	08/13/2011	08/13/2011	08/30/2011	57	22	HOPPER, HERSHEL ALAN (LD)	1632
C 03762 POD3		CUB	ED	Shallow	4 2 2	16	23S	28E		586203	3574642	3133	08/11/2014	08/11/2014	08/22/2014	40	30	BLANCO, TIMOTHY	1070
C 00035		CUB	ED	Shallow	3 3 3	32	22S	28E		583127	3578762*	3142	06/01/1948	06/10/1948	07/15/1948	146		J.F. KIMMELL	
C 00212		CUB	ED	Shallow	3 3 3	32	22S	28E		583127	3578762*	3142	06/04/1957	03/31/1947	06/28/1957	146	30	EXISTING WELL	28
C 01779		C	ED	Shallow	3 1 1	08	23S	28E		583128	3576749*	3153	08/29/1980	08/30/1980	09/05/1980	178	50	TAYLOR, BILL	655
C 03469 POD1		CUB	ED	Shallow	3 4 3	11	23S	28E		588374	3575538	3181	01/24/2011	01/25/2011	05/20/2011	68	38	SCARBOROUGH, LANE (LD)	1188
C 02141 CLW468812	O	C	ED	Shallow	2 4 4	06	23S	28E		582925	3577348*	3213	05/01/1988	05/09/1988	05/16/1988	65	36	EDGAR W. MAGBY	969
C 00309		CUB	ED	Shallow	1 3 1	08	23S	28E		583129	3576544*	3225	12/01/1952	12/11/1952	03/17/1953	165	16	SAM S. SMITH	108
C 02243		C	ED	Shallow	4 4 4	06	23S	28E		582925	3577148*	3246	11/25/1990	11/29/1992	12/01/1992	60	40	EDGAR MAGBY	969
C 00213		CUB	ED	Shallow	1 4 1	32	22S	28E		583517	3579775*	3274	02/04/1965	02/20/1965	03/18/1965	200	35	A. F. SMITH	28
C 01634		C	ED	Shallow	2 4	06	23S	28E		582825	3577653*	3287	12/12/1975	02/03/1976	02/05/1976	185	85	TAYLOR, W.H. SR.	604
C 01699		C	ED	Shallow	2 4	06	23S	28E		582825	3577653*	3287	06/20/1977	07/15/1977	08/22/1977	90	65		30
C 02503		C	ED	Shallow	4 2	15	23S	28E		587679	3574874*	3297	08/27/1996	08/29/1996	09/03/1996	70	12	OSBOURN, FLOYD MILTON	353
C 03094		C	ED	Shallow	4 3 1	32	22S	28E		583317	3579567*	3318	11/24/2004	11/28/2004	12/06/2004	138	53		1348
C 02141		C	ED	Shallow	4 4	06	23S	28E		582826	3577249*	3325	05/01/1988	05/09/1988	12/01/1992	65	36	EDGAR W. MAGBY	969
C 02243 CLW469222	O	C	ED	Shallow	4 4	06	23S	28E		582826	3577249*	3325	11/25/1990	11/29/1992	12/01/1992	60	40	EDGAR MAGBY	969
C 00616		CUB	ED	Shallow	1 3 1	14	23S	28E		587982	3574978*	3365	10/22/1980	12/05/1980	12/09/1980	120	30	BRININSTOOL, M.D.	842
C 00269		C	ED	Shallow	4 4 2	15	23S	28E		587778	3574773*	3433	03/01/1958	03/30/1958	04/08/1958	240	35	FREEK, R.H.	212
C 00269 CLW199753	O	C	ED	Shallow	4 4 2	15	23S	28E		587778	3574773*	3433	03/01/1958	03/30/1958	04/08/1958	240	35	R.H. FREEK	212
C 00520		C	ED	Shallow	1 1 3	16	23S	28E		584754	3574538*	3509	01/12/1954	01/19/1954	03/22/1954	115	33	HOWARD HEMLER	24
C 00521		C	ED	Shallow	1 1 3	16	23S	28E		584754	3574538*	3509	01/03/1954	01/12/1954	03/22/1954	218	33	HOWARD HEMLER	24

C 00958	C	ED	Shallow	2	1	2	06	23S	28E	582517	3578554*		3676	08/01/1961	08/09/1961	09/12/1961	150	HOWARD HEMLER	24	
C 02189	C	ED	Shallow	1	1	3	14	23S	28E	587985	3574572*		3711	03/12/1990	03/12/1990	04/20/1990	48	29 NORMAN SPRUILL	803	
C 04417 POD1	CUB	ED		4	3	3	36	22S	28E	589736	35788874		3788	03/31/2020	03/31/2020	05/26/2020	55	MARK MUMBY	1789	
C 03762 POD1	CUB	ED	Shallow	4	4	2	17	23S	28E	585314	3574066		3793	08/11/2014	08/11/2014	08/22/2014	40	31 BLANCO, TIMOTHY	1070	
C 00211	C	ED	Shallow	4	3	3	15	23S	28E	586570	3573949*		3853	06/19/1979	06/20/1979	09/26/1979	89	48 J. W. TOMBLIN	592	
C 02846 S	CUB	ED	Shallow	4	4	4	07	23S	28E	582926	3575527*		3897	04/05/2003	04/18/2003	10/08/2003	150	40 BEHUNIN,KEITH	1227	
C 03460 POD1	CUB	ED	Shallow	3	1	2	14	23S	28E	588857	3575004		3901	10/08/2010	10/08/2010	10/13/2010	100	38 NORRIS, JOHN D. (LD)	1682	
C 04560 POD2	CUB	ED	Shallow	1	3	3	16	23S	28E	584857	3574036		3942	10/26/2021	10/28/2021	11/29/2021	36	25 JAROD MICHALSKY	1800	
C 03472 POD1	CUB	ED	Shallow	4	4	4	07	23S	28E	582894	3575479		3950	10/03/2011	10/05/2011	05/01/2012	140	40 JASON MALEY (LD)	1690	
C 00128	C	ED	Shallow	2	4	4	15	23S	28E	587783	3574162*		3981	12/24/1952	01/10/1953	04/30/1953	149	SMITH, SAM S.	108	
C 01336	C	ED	Shallow	2	1	1	22	23S	28E	586572	3573744*		4056	09/03/1966	09/20/1966	01/26/1967	190	30 HOWARD HEMLER	24	
C 01993	C	ED	Shallow		2	3	06	23S	28E	582020	3577643*		4092	11/25/1981	11/27/1981	12/28/1981	164	45 GLENN, CLARK A."CORKY" (LD)	421	
C 04418 POD1	CUB	ED		4	2	1	12	23S	28E	590104	3576851		4098	03/31/2020	03/31/2020	05/26/2020	55	MARK MUMBY	1789	
C 03040	C	ED	Shallow	4	3	1	31	22S	28E	582254	3579191		4108	03/15/2004	03/17/2004	03/22/2004	72	42	1348	
C 02064	C	ED	Shallow		4	3	06	23S	28E	582021	3577238*		4124	09/18/1983	09/25/1983	10/04/1983	90	50 EDGAR W. MAGBY	969	
C 01885	C	ED	Shallow		2	2	21	23S	28E	586070	3573640*		4134	12/10/1979	12/17/1979	01/14/1980	104	35 JIM TOMBLIN	592	
C 01872	C	ED	Shallow		2	1	22	23S	28E	586878	3573649*		4196	04/07/1980	06/12/1980	07/02/1980	68	48 MORELAND, A.J.	113	
C 00058	CUB	ED	Shallow	3	4	3	06	23S	28E	581920	3577137*		4238	08/26/1976	05/06/1948	09/07/1976	185	20 BRININSTOOL, M.D.	24	
C 02511	C	ED	Shallow	1	2	1	06	23S	28E	581916	3578550*		4265	03/02/1997	03/03/1997	03/19/1997	60	35	1348	
C 00052	O	CUB	ED	Shallow	3	4	4	30	22S	28E	582707	3580371*		4280	03/10/1952	03/26/1952	04/28/1952	208	12 HOWARD HEMLER	24
C 04524 POD1	CUB	ED		1	1	2	01	23S	28E	590452	3578629		4425	04/13/2021	04/14/2021	05/10/2021	55	NOVO OIL & GAS NORTHERN DELAWARE LLC	1456	
C 04203 POD1	C	ED	Shallow	2	4	3	07	23S	28E	582148	3575792		4430	02/21/2018	02/22/2018	03/20/2018	200	160 MANN, TRAVIS	1778	
C 01253	CUB	ED	Shallow	1	3	1	22	23S	28E	586375	3573338*		4444	05/15/1965	06/04/1965	07/09/1965	179	50 BRININSTOOL, A.M.	410	
C 00851	C	ED	Shallow		3	17		23S	28E	583438	3574217*		4449	09/01/1958	09/01/1958	09/30/1958	200	50 W D BRININSTOOL	24	
C 02943	C	ED	Shallow	2	1	1	06	23S	28E	581725	3578546*		4452	01/24/2003	01/25/2003	02/10/2003	69	43 TAYLOR, CLINTON E.	1348	
C 04389 POD1	C	ED	Shallow	4	2	3	07	23S	28E	582038	3575885		4489	01/22/2020	01/22/2020	02/21/2020	99	70 TAYLOR, CLINTON E.E.ENER	1348	
C 01216	CUB	ED	Shallow	4	1	1	13	23S	28E	589801	3575205*		4497	08/05/1964	08/06/1964	09/15/1964	60	45 W.H. BRADY	359	
C 04367 POD1	C	ED	Shallow	1	2	3	07	23S	28E	581935	3575983		4543	11/21/2019	11/21/2019	12/02/2019	89	72 TAYLOR, CLINTON E.E.ENER	1348	
C 00094 AS	C	CUB	ED	Shallow	1	3	2	22	23S	28E	587183	3573346*		4556	04/23/1976	04/30/1976	05/11/1976	165	40 MURRELL ABBOTT	46
C 04250 POD1	C	ED	Shallow	1	1	1	07	23S	28E	581613	3576868		4587	07/15/2018	07/18/2018	08/14/2018	140	120 TRAVIS MANN	1778	
C 02883	CUB	ED	Shallow	1	3	3	06	23S	28E	581526	3577331*		4605	02/20/2002	03/13/2002	03/25/2002	202	HAMMOND, JOHN B.	1227	
C 00058 S	CUB	ED	Shallow	3	3	3	06	23S	28E	581526	3577131*		4628	02/20/2002	03/13/2002	05/24/2004	202	HAMMOND, JOHN B.	1227	
C 04307 POD1	C	ED	Shallow	2	1	3	07	23S	28E	581737	3576138		4668	02/26/2019	02/27/2019	03/11/2019	92	78 TAYLOR, CLINTON E.	1348	
C 01487 CLW201796	O	CUB	ED	Shallow		3	2	22	23S	28E	587284	3573247*		4677	10/26/1974	10/28/1974	12/02/1974	90	30 BARRON, EMMETT	30
C 01487	CUB	ED	Shallow	3	4	1	22	23S	28E	586779	3573142*		4680	12/07/1977	12/22/1977	01/13/1978	150	38 BILL G. TAYLOR, JR.	655	
C 01108	C	ED	Shallow	3	2	1	23	23S	28E	588395	3573566*		4788	06/20/1967	12/31/1930	07/06/1967	60	35 BARRON, EMMETT	30	
C 01816	C	ED	Shallow	1	3	1	23	23S	28E	587992	3573355*		4803	07/12/1979	07/27/1979	08/01/1979	200	40 BRISTOW, JIM D.	743	
C 00716	C	ED	Shallow		21			23S	28E	585471	3573012*		4805	07/25/1956	08/01/1956	08/14/1956	140	69 W.C. MOORE	195	
C 04187 POD1	C	ED	Shallow	3	3	1	07	23S	28E	581519	3576251		4836	03/05/2018	03/06/2018	03/26/2018	88	48 CLINTON E TAYLOR	1348	
C 00544	C	ED	Shallow	3	3	1	21	23S	28E	584762	3573120*		4845	11/27/1954	11/28/1954	12/13/1954	27	JOLLY, J.R.	171	
C 00094	CUB	ED	Shallow	3	4	2	22	23S	28E	587588	3573151*		4854	02/03/1965	02/10/1965	03/21/1967	100	60 EMMETT BARRON	30	
C 00094	C	CUB	ED	Shallow	3	4	2	22	23S	28E	587588	3573151*		4854	02/03/1965	02/10/1965	03/21/1967	100	60 EMMETT BARRON	30
C 00094 A	C	CUB	ED	Shallow	3	4	2	22	23S	28E	587588	3573151*		4854	07/18/2002		11/04/2002	166	40 BEHUNIN, KEITH	1227
C 00313	CUB	ED	Shallow	3	3	3	17	23S	28E	583136	3573915*		4872	06/01/1952	06/01/1952	07/07/1952	250	75 HOWARD HEMLER	24	
C 04366 POD1	C	ED	Shallow	3	1	3	07	23S	28E	581569	3575977		4884	11/13/2019	11/14/2019	12/02/2019	94	85 TAYLOR, CLINTON E.E.ENER	1348	
C 00154	CUB	ED	Shallow	4	2	1	23	23S	28E	588595	3573566*		4887	08/15/1974	08/20/1974	02/11/1975	196	38 HOWARD P. HEMLER	24	
C 04539 POD1	CUB	ED		2	4	2	01	23S	28E	591034	3578223		4944	07/14/2021	07/14/2021	10/05/2021	55	HAMMER, RODNEY S.WARDENER	1186	
C 01102	C	ED	Shallow		1	2	23	23S	28E	588901	3573672*		4961	12/10/1962	12/21/1962	01/30/1963	100	12 MORELAND, A.J.	113	
C 04313 POD1	C	ED	Shallow	4	3	3	07	23S	28E	581677	3575500		4982	04/01/2019	04/02/2019	05/13/2019	99	86 CLINTON E TAYLOR	1348	
C 00048	CUB	ED	Shallow	3	3	1	23	23S	28E	587997	3573160		4985	09/01/1976	09/27/1976	09/28/1976	182	75 H. HEMLER	24	
C 00048	C	CUB	ED	Shallow	3	3	1	23	23S	28E	587997	3573160		4985	09/01/1976	09/27/1976	09/28/1976	182	75 H. HEMLER	24

Record Count: 100

UTMNAD83 Radius Search (in meters):

Easting (X): 586110

Northing (Y): 3577774.59

Radius: 5000

*UTM location was derived from PLSS - see Help


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



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 POD1	4	1	4	04	23S	28E	585657	3577591 

Driller License: 1789	Driller Company: HRL COMPLIANCE SOLUTIONS, INC	
Driller Name: MARK MUMBY		
Drill Start Date: 04/01/2020	Drill Finish Date: 04/01/2020	Plug Date:
Log File Date: 05/26/2020	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 2.00	Depth Well: 25 feet	Depth Water: 20 feet

Water Bearing Stratifications:	Top	Bottom	Description
	20	21	Sandstone/Gravel/Conglomerate
	21	25	Other/Unknown

Casing Perforations:	Top	Bottom
	15	25

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.

12/7/21 7:57 AM




Page 1 of 1

POD SUMMARY - C 04415 POD1

LVP 1 SWD

Distance to nearest Depth to Water = .30 Miles

Legend

-  Distance = .30 Miles
-  DTW - 20ft C 04415 POD1
-  LVP 1 SWD

DTW - 20ft C 04415 POD1

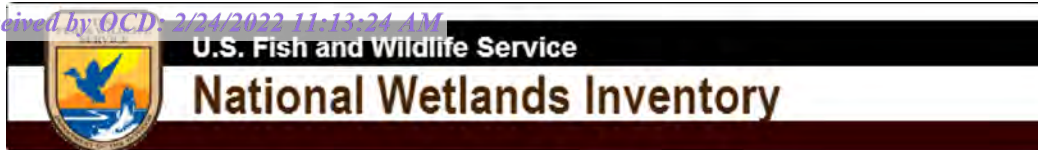
LVP 1 SWD

Herradura Bend Rd

Herradura Bend Rd

Pecos River





LVP 1 SWD - Riverine 725ft



December 7, 2021

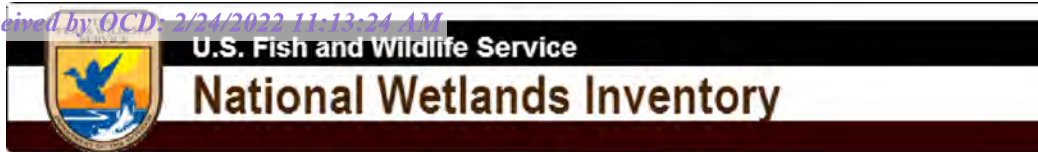
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



LVP 1 SWD - Wetlands 1,906ft



December 7, 2021

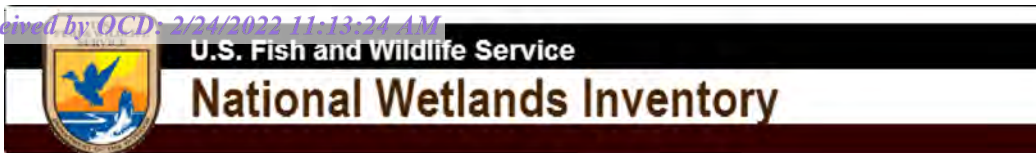
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



LVP 1 SWD - Freshwater Pond 15,845ft



December 7, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond




- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

LVP 1 SWD

Distance to nearest Residence = 7,340ft

Legend

-  Distance = 7,340ft
-  LVP 1 SWD
-  Nearest Residence

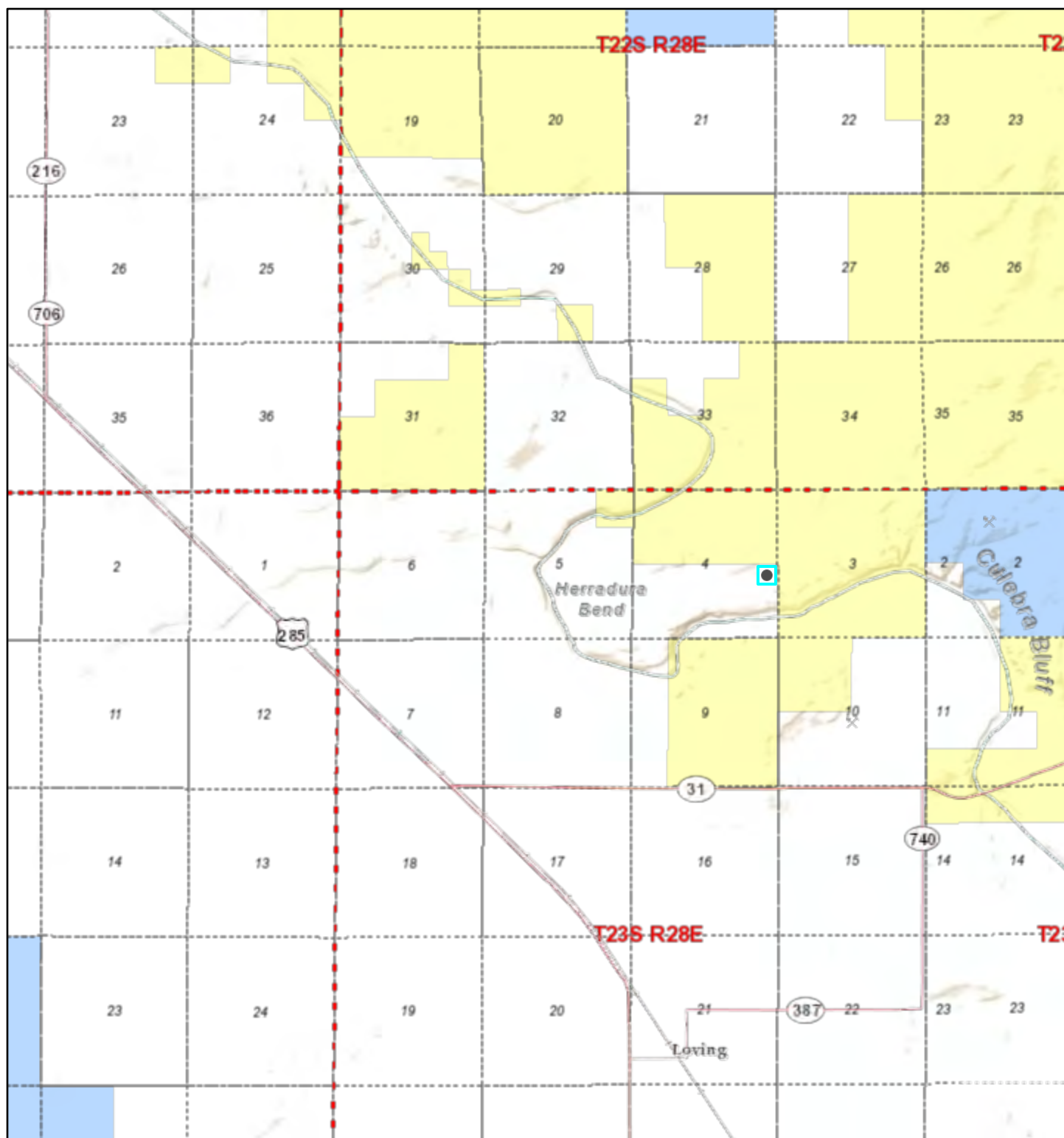


Google Earth

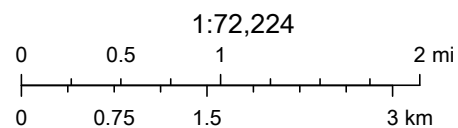
3000 ft



Active Mines Near LVP 1 SWD



12/7/2021, 7:28:55 AM



U.S. Bureau of Land Management - New Mexico State Office, Sources:
Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

EMNRD MMD GIS Coordinator

AREA OF MINIMAL FLOOD HAZARD
Zone X























Eddy County
350120


35015C1350D
eff. 6/4/2010


Zone A

0 250 500 1,000 1,500 2,000 Feet 1:6,000 104°4'47"W 32°19'46"N
Released to Imaging: 3/22/2022 3:08:51 PM
Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes, <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS	NO SCREEN	Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMrS
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped





The pin displayed on the map is an approximate

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **12/7/2021 at 9:26 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

ATTACHMENT D

Karst Map



Energizing America

wescominc.com | info@wescominc.com | 218-724-1322

LVP SWD #001 | Incident ID: nAPP2134137036

LVP SWD #001

Karst Potential = Medium

Legend

- 01 Low
- 02 Medium
- 03 High
- LVP SWD #001



ATTACHMENT E

Envirotech Inc. Laboratory Analysis Reports



Energizing America

wescominc.com | info@wescominc.com | 218-724-1322

LVP SWD #001 | Incident ID: nAPP2134137036

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: LVP SWD #001

Work Order: E202034

Job Number: 01058-0007

Received: 2/8/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/17/22

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.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 2/17/22



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: LVP SWD #001
Workorder: E202034
Date Received: 2/8/2022 11:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2022 11:45:00AM, 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 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: LVP SWD #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 02/17/22 15:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01-0'	E202034-01A	Soil	02/04/22	02/08/22	Glass Jar, 4 oz.
BG01-1'	E202034-02A	Soil	02/04/22	02/08/22	Glass Jar, 4 oz.
CONF01B-0'	E202034-03A	Soil	02/05/22	02/08/22	Glass Jar, 4 oz.
CONF02-0'	E202034-04A	Soil	02/04/22	02/08/22	Glass Jar, 4 oz.
CONF03-0'	E202034-05A	Soil	02/04/22	02/08/22	Glass Jar, 4 oz.
CONF04A-0'	E202034-06A	Soil	02/05/22	02/08/22	Glass Jar, 4 oz.
CONF05-0'	E202034-07A	Soil	02/04/22	02/08/22	Glass Jar, 4 oz.
CONF06-2'	E202034-08A	Soil	02/04/22	02/08/22	Glass Jar, 4 oz.
CONF07-1'	E202034-09A	Soil	02/04/22	02/08/22	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:
2/17/2022 3:52:19PM

BG01-0'

E202034-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2207018	
Benzene	ND	0.0250	1	02/08/22	02/10/22	
Ethylbenzene	ND	0.0250	1	02/08/22	02/10/22	
Toluene	ND	0.0250	1	02/08/22	02/10/22	
o-Xylene	ND	0.0250	1	02/08/22	02/10/22	
p,m-Xylene	ND	0.0500	1	02/08/22	02/10/22	
Total Xylenes	ND	0.0250	1	02/08/22	02/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2207018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/22	02/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2207050	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/22	02/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/22	02/11/22	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		02/11/22	02/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2207055	
Chloride	ND	20.0	1	02/11/22	02/11/22	



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:
2/17/2022 3:52:19PM

BG01-1'

E202034-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2207018	
Benzene	ND	0.0250	1	02/08/22	02/10/22	
Ethylbenzene	ND	0.0250	1	02/08/22	02/10/22	
Toluene	ND	0.0250	1	02/08/22	02/10/22	
o-Xylene	ND	0.0250	1	02/08/22	02/10/22	
p,m-Xylene	ND	0.0500	1	02/08/22	02/10/22	
Total Xylenes	ND	0.0250	1	02/08/22	02/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2207018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/22	02/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2207050	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/22	02/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/22	02/11/22	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		02/11/22	02/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2207055	
Chloride	ND	20.0	1	02/11/22	02/12/22	



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:
2/17/2022 3:52:19PM

CONF01B-0'

E202034-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2207018	
Benzene	ND	0.0250	1	02/08/22	02/10/22	
Ethylbenzene	ND	0.0250	1	02/08/22	02/10/22	
Toluene	ND	0.0250	1	02/08/22	02/10/22	
o-Xylene	ND	0.0250	1	02/08/22	02/10/22	
p,m-Xylene	ND	0.0500	1	02/08/22	02/10/22	
Total Xylenes	ND	0.0250	1	02/08/22	02/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2207018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/22	02/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2207050	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/22	02/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/22	02/11/22	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		02/11/22	02/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2207055	
Chloride	265	20.0	1	02/11/22	02/12/22	



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:
2/17/2022 3:52:19PM

CONF02-0'

E202034-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2207018
Benzene	ND	0.0250	1	02/08/22	02/10/22	
Ethylbenzene	ND	0.0250	1	02/08/22	02/10/22	
Toluene	ND	0.0250	1	02/08/22	02/10/22	
o-Xylene	ND	0.0250	1	02/08/22	02/10/22	
p,m-Xylene	ND	0.0500	1	02/08/22	02/10/22	
Total Xylenes	ND	0.0250	1	02/08/22	02/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2207018
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/22	02/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	117 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2207050
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/22	02/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/22	02/11/22	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		02/11/22	02/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2207055
Chloride	161	20.0	1	02/11/22	02/12/22	



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:
2/17/2022 3:52:19PM

CONF03-0'

E202034-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2207018
Benzene	ND	0.0250	1	02/08/22	02/10/22	
Ethylbenzene	ND	0.0250	1	02/08/22	02/10/22	
Toluene	ND	0.0250	1	02/08/22	02/10/22	
o-Xylene	ND	0.0250	1	02/08/22	02/10/22	
p,m-Xylene	ND	0.0500	1	02/08/22	02/10/22	
Total Xylenes	ND	0.0250	1	02/08/22	02/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2207018
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/22	02/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	118 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2207050
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/22	02/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/22	02/11/22	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		02/11/22	02/11/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208057
Chloride	558	20.0	1	02/17/22	02/17/22	



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:
2/17/2022 3:52:19PM

CONF04A-0'

E202034-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2207018
Benzene	ND	0.0250	1	02/08/22	02/10/22	
Ethylbenzene	ND	0.0250	1	02/08/22	02/10/22	
Toluene	ND	0.0250	1	02/08/22	02/10/22	
o-Xylene	ND	0.0250	1	02/08/22	02/10/22	
p,m-Xylene	ND	0.0500	1	02/08/22	02/10/22	
Total Xylenes	ND	0.0250	1	02/08/22	02/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2207018
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/22	02/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	116 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2207050
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/22	02/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/22	02/12/22	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		02/11/22	02/12/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2207055
Chloride	111	20.0	1	02/11/22	02/12/22	



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:
2/17/2022 3:52:19PM

CONF05-0'

E202034-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2207018
Benzene	ND	0.0250	1	02/08/22	02/10/22	
Ethylbenzene	ND	0.0250	1	02/08/22	02/10/22	
Toluene	ND	0.0250	1	02/08/22	02/10/22	
o-Xylene	ND	0.0250	1	02/08/22	02/10/22	
p,m-Xylene	ND	0.0500	1	02/08/22	02/10/22	
Total Xylenes	ND	0.0250	1	02/08/22	02/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2207018
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/22	02/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	117 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2207050
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/22	02/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/22	02/12/22	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		02/11/22	02/12/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2207055
Chloride	730	20.0	1	02/11/22	02/12/22	



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:
2/17/2022 3:52:19PM

CONF06-2'

E202034-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2207018	
Benzene	ND	0.0250	1	02/08/22	02/10/22	
Ethylbenzene	ND	0.0250	1	02/08/22	02/10/22	
Toluene	ND	0.0250	1	02/08/22	02/10/22	
o-Xylene	ND	0.0250	1	02/08/22	02/10/22	
p,m-Xylene	ND	0.0500	1	02/08/22	02/10/22	
Total Xylenes	ND	0.0250	1	02/08/22	02/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.3 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2207018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/22	02/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	116 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2207050	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/22	02/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/22	02/12/22	
<i>Surrogate: n-Nonane</i>	114 %	50-200		02/11/22	02/12/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2207055	
Chloride	127	20.0	1	02/11/22	02/12/22	



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:
2/17/2022 3:52:19PM

CONF07-1'

E202034-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2207018	
Benzene	ND	0.0250	1	02/08/22	02/10/22	
Ethylbenzene	ND	0.0250	1	02/08/22	02/10/22	
Toluene	ND	0.0250	1	02/08/22	02/10/22	
o-Xylene	ND	0.0250	1	02/08/22	02/10/22	
p,m-Xylene	ND	0.0500	1	02/08/22	02/10/22	
Total Xylenes	ND	0.0250	1	02/08/22	02/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2207018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/22	02/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	117 %	70-130		02/08/22	02/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2207050	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/22	02/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/22	02/12/22	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		02/11/22	02/12/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2207055	
Chloride	416	20.0	1	02/11/22	02/12/22	



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	2/17/2022 3:52:19PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2207018-BLK1)

Prepared: 02/08/22 Analyzed: 02/08/22

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	7.55		8.00		94.3	70-130			

LCS (2207018-BS1)

Prepared: 02/08/22 Analyzed: 02/08/22

Benzene	4.22	0.0250	5.00		84.4	70-130			
Ethylbenzene	4.25	0.0250	5.00		84.9	70-130			
Toluene	4.36	0.0250	5.00		87.1	70-130			
o-Xylene	4.34	0.0250	5.00		86.8	70-130			
p,m-Xylene	8.65	0.0500	10.0		86.5	70-130			
Total Xylenes	13.0	0.0250	15.0		86.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

Matrix Spike (2207018-MS1)

Source: E202035-04

Prepared: 02/08/22 Analyzed: 02/08/22

Benzene	4.25	0.0250	5.00	ND	84.9	54-133			
Ethylbenzene	4.28	0.0250	5.00	ND	85.6	61-133			
Toluene	4.39	0.0250	5.00	ND	87.7	61-130			
o-Xylene	4.36	0.0250	5.00	ND	87.3	63-131			
p,m-Xylene	8.71	0.0500	10.0	ND	87.1	63-131			
Total Xylenes	13.1	0.0250	15.0	ND	87.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike Dup (2207018-MSD1)

Source: E202035-04

Prepared: 02/08/22 Analyzed: 02/08/22

Benzene	4.52	0.0250	5.00	ND	90.5	54-133	6.32	20	
Ethylbenzene	4.55	0.0250	5.00	ND	91.1	61-133	6.21	20	
Toluene	4.67	0.0250	5.00	ND	93.4	61-130	6.30	20	
o-Xylene	4.64	0.0250	5.00	ND	92.8	63-131	6.18	20	
p,m-Xylene	9.27	0.0500	10.0	ND	92.7	63-131	6.16	20	
Total Xylenes	13.9	0.0250	15.0	ND	92.7	63-131	6.17	20	
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.3	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	2/17/2022 3:52:19PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2207018-BLK1)

Prepared: 02/08/22 Analyzed: 02/08/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

LCS (2207018-BS2)

Prepared: 02/08/22 Analyzed: 02/08/22

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0		99.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.09		8.00		101	70-130			

Matrix Spike (2207018-MS2)

Source: E202035-04

Prepared: 02/08/22 Analyzed: 02/08/22

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.08		8.00		101	70-130			

Matrix Spike Dup (2207018-MSD2)

Source: E202035-04

Prepared: 02/08/22 Analyzed: 02/08/22

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	5.91	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	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	2/17/2022 3:52:19PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2207050-BLK1)

Prepared: 02/11/22 Analyzed: 02/11/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	57.1		50.0		114	50-200			

LCS (2207050-BS1)

Prepared: 02/11/22 Analyzed: 02/11/22

Diesel Range Organics (C10-C28)	614	25.0	500		123	38-132			
Surrogate: <i>n</i> -Nonane	46.6		50.0		93.2	50-200			

Matrix Spike (2207050-MS1)

Source: E202034-01

Prepared: 02/11/22 Analyzed: 02/11/22

Diesel Range Organics (C10-C28)	569	25.0	500	ND	114	38-132			
Surrogate: <i>n</i> -Nonane	54.6		50.0		109	50-200			

Matrix Spike Dup (2207050-MSD1)

Source: E202034-01

Prepared: 02/11/22 Analyzed: 02/11/22

Diesel Range Organics (C10-C28)	571	25.0	500	ND	114	38-132	0.350	20	
Surrogate: <i>n</i> -Nonane	55.6		50.0		111	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	2/17/2022 3:52:19PM

Anions by EPA 300.0/9056A

Analyst: RAS

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 (2207055-BLK1)

Prepared: 02/11/22 Analyzed: 02/11/22

Chloride ND 20.0

LCS (2207055-BS1)

Prepared: 02/11/22 Analyzed: 02/11/22

Chloride 250 20.0 250 100 90-110

Matrix Spike (2207055-MS1)

Source: E202018-01

Prepared: 02/11/22 Analyzed: 02/11/22

Chloride 258 20.0 250 ND 103 80-120

Matrix Spike Dup (2207055-MSD1)

Source: E202018-01

Prepared: 02/11/22 Analyzed: 02/11/22

Chloride 257 20.0 250 ND 103 80-120 0.0431 20



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	2/17/2022 3:52:19PM

Anions by EPA 300.0/9056A

Analyst: RAS

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 (2208057-BLK1)

Prepared: 02/16/22 Analyzed: 02/16/22

Chloride	ND	20.0
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LCS (2208057-BS1)

Prepared: 02/16/22 Analyzed: 02/16/22

Chloride	260	20.0	250	104	90-110
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Matrix Spike (2208057-MS1)

Source: E202083-01

Prepared: 02/16/22 Analyzed: 02/16/22

Chloride	1740	100	250	1580	61.3	80-120	M5
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Matrix Spike Dup (2208057-MSD1)

Source: E202083-01

Prepared: 02/16/22 Analyzed: 02/16/22

Chloride	1980	100	250	1580	158	80-120	13.0	20	M5
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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	02/17/22 15:52

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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

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

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



Project Information

Chain of Custody

Client: Devon		Bill To Attention: Jim Raley Address: 5315 Buena Vista Dr City, State, Zip: Calsbad, NM 88220 Phone: 575-689-7597 Email: jim.raley@dvn.com		Lab Use Only				TAT				EPA Program	
Project: LVP SWD #001				Lab WO# E 202084		Job Number 015581007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo													
Address: 1224 Standpipe Rd				Analysis and Method									
City, State, Zip: Carlsbad, NM 88220													
Phone: 505-382-1211													
Email: ashley.giovengo@wescominc.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
16:04	2/4/22	Soil	1 Jar	BG01 - 0'	1							X		
16:06	2/4/22	Soil	1 Jar	BG01 - 1'	2							X		
9:28	2/5/22	Soil	1 Jar	CONF01B - 0'	3							X		
15:15	2/4/22	Soil	1 Jar	CONF02 - 0'	4							X		
15:19	2/4/22	Soil	1 Jar	CONF03 - 0'	5							X		
9:35	2/5/22	Soil	1 Jar	CONF04A - 0'	6							X		
10:24	2/4/22	Soil	1 Jar	CONF05 - 0'	7							X		
13:50	2/4/22	Soil	1 Jar	CONF06 - 2'	8							X		
14:15	2/4/22	Soil	1 Jar	CONF07 - 1'	9							X		

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, jim.raley@dvn.com, ashley.giovengo@wescominc.com

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

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

Relinquished by: (Signature) <i>[Signature]</i>	Date 02-07-22	Time 10:16am	Received by: (Signature) <i>[Signature]</i>	Date 2-7-22	Time 1018	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) <i>[Signature]</i>	Date 2-7-22	Time 1615	Received by: (Signature) <i>[Signature]</i>	Date 2/8/22	Time 11:45	
Relinquished by: (Signature) <i>[Signature]</i>	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

Envirotech Analytical Laboratory

Printed: 2/8/2022 5:54:50PM

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:	02/08/22 11:45	Work Order ID:	E202034
Phone:	(505) 382-1211	Date Logged In:	02/07/22 15:11	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	02/14/22 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: UPS**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? 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 #001

Work Order: E202106

Job Number: 01058-0007

Received: 2/18/2022

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
2/18/22

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.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 2/18/22

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: LVP SWD #001
Workorder: E202106
Date Received: 2/18/2022 11:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/18/2022 11:45:00AM, under the Project Name: LVP SWD #001.

The analytical test results summarized in this report with the Project Name: LVP SWD #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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CONF0 5 - 1'	5
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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	02/18/22 16:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF0 5 - 1'	E202106-01A	Soil	02/14/22	02/18/22	Glass Jar, 4 oz.
CONF0 5 - 2'	E202106-02A	Soil	02/14/22	02/18/22	Glass Jar, 4 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	2/18/2022 4:38:30PM

CONF0 5 - 1'

E202106-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2208090
Chloride	384	20.0	1	02/17/22	02/18/22	



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	2/18/2022 4:38:30PM

CONF0 5 - 2'
E202106-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2208090
Chloride	405	20.0	1	02/17/22	02/18/22	



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	02/18/22 16:38

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Page 8 of 10

Envirotech Analytical Laboratory

Printed: 2/18/2022 12:27:33PM

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:	02/18/22 11:45	Work Order ID:	E202106
Phone:	(505) 382-1211	Date Logged In:	02/17/22 14:55	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	02/18/22 17:00 (0 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: UPSComments/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? No
 - 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.

[illegible]

ATTACHMENT F

48-hour Liner Inspection Notification Email



Energizing America

wescominc.com | info@wescominc.com | 218-724-1322

LVP SWD #001 | Incident ID: nAPP2134137036



Ashley Giovengo <ashley.giovengo@wescominc.com>

48-hour Liner Inspection Notification - LVP SWD #001

1 message

Ashley Giovengo <ashley.giovengo@wescominc.com>

Mon, Jan 10, 2022 at 2:23 PM

To: "Hamlet, Robert, EMNRD" <Robert.hamlet@state.nm.us>, "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Venegas, Victoria, EMNRD" <Victoria.venegas@state.nm.us>

Cc: Shar Harvester <shar.harvester@wescominc.com>, "Raley, Jim" <Jim.Raley@dmv.com>, Cole Burton <cole.burton@wescominc.com>, Daniel Davis <daniel.davis@wescominc.com>, Joey Croce <joey.croce@wescominc.com>, Cody York <cody.york@wescominc.com>

Hello All,

This email is to notify the NMOCD that Wescom, Inc. will be on the LVP SWD #001 to perform a liner inspection. Inspection will be conducted on Thursday, January 13, 2022 (01/13/2022) at 0800 hours. Please let me know if you have any questions.

Thank you,

Ashley Giovengo, Environmental Manager - Permian

O (218) 724-1322 | **C** (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com

"I am in charge of my own safety."



Minnesota | **North Dakota** | **New Mexico** | **Wisconsin**

ATTACHMENT G

48-hour Confirmation Sampling Notification Email



Energizing America

wescominc.com | info@wescominc.com | 218-724-1322

LVP SWD #001 | Incident ID: nAPP2134137036



Ashley Giovengo <ashley.giovengo@wescominc.com>

48-Hour Confirmation Sample Notice

1 message

cole.burton@wescominc.com <cole.burton@wescominc.com>

Wed, Feb 2, 2022 at 9:23 AM

To: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Hamlet, Robert, EMNRD" <Robert.hamlet@state.nm.us>, "Venegas, Victoria, EMNRD" <Victoria.venegas@state.nm.us>
Cc: Shar Harvester <shar.harvester@wescominc.com>, Joey Croce <joey.croce@wescominc.com>, Cody York <cody.york@wescominc.com>, "Raley, Jim" <Jim.Raley@dmv.com>, ashley.giovengo@wescominc.com

Hello All,

We intend to take confirmation samples at LVP SWD #001 - nAPP2134137036 starting on (2/04/22).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Cole Burton, Environmental Field Technician**O** (218) 724-1322 | **C** (505) 205-0455**WescomInc.com** | cole.burton@WescomInc.com*"I am in charge of my own safety."*

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
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CONDITIONS

Action 83965

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 83965
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved.	3/22/2022