



Wescom Inc.
1224 Standpipe Road
Carlsbad, New Mexico 88220

(575) 840-3940
wescominc.com

October 27, 2021

Robert Hamlet, Victoria Venegas, 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: Lava Fee #001
API: 30-015-42136
PLSS: Unit P Sec 03 T23S R27E
GPS: 32.3301849, -104.1732712
Incident ID: NAPP2122429670

Background

Wescom, Inc., hereafter referred to as Wescom, has prepared this deferral request on behalf of Devon Energy, hereafter referred to as Devon, regarding the release at the Lava Fee #001 (Site) located in Unit P, Section 03, Township 23 South and Range 27 East in Eddy County, New Mexico. The GPS coordinates are as follows: North 32.3301849 and West -104.1732712. Surface owner of the site is private land. The Site falls within New Mexico Oil Conservation Division (NMOCD), District 2 Artesia.

On August 10, 2021, a gasket on a manway cover failed which caused three barrels (bbls) of crude oil and three bbls of produced water to be released inside the lined secondary containment. The gasket failure occurred on a treating tower located at the North side of the central tank battery (CTB). Two bbls of crude oil and three bbls of produced water was contained and recovered from inside the containment. Vegetation in the field located to the West of the CTB was lightly misted by the overspray event. In addition, the road in between the field and the CTB was impacted.

On September 8, 2021, Wescom inspected the lined secondary containment and a half-inch diameter hole was found in between tanks 123514-3 and 69718 on the South side of containment. A one-inch tear was located to the Southeast side of the treating tower serial number (S/N): V3910 and a ten-inch tear was found to the East side of the treating tower (S/N): V3910 (see Attachment B). Wescom was dispatched to location on September 10, 2021, to sample the soils beneath the small tears and determine if those soils would require remediation. The liner was cut to allow sampling and immediately repaired by Rose Gold Liners LLC. Samples collected on the surface indicated remediation would be required. Additional samples were collected to determine vertical extent. Sample results indicate vertical impacts did not extend below

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surface in between the tanks and did not extend below four feet next to the treating tower (S/N): V3910. Removal of impacted soils below the lined secondary containment would not be possible without deconstruction of production equipment and impacted soil does not pose imminent risk. Therefore, Devon Energy respectfully requests deferral for the removal of soils below containment until the well is plugged and the facilities are removed.

Per landowner request, impacted soils in the field adjacent to the CTB will not be removed. The area of the road that was impacted by the overspray event, was excavated and contaminated soils were properly disposed of.

Surface & Ground Water

The New Mexico Office of the State Engineer (OSE) records indicates nearest ground water measurement in the area is greater than 55 feet below ground surface (bgs) and is 0.33 miles North of the location, shown in Attachment C.

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 (RRAL) for the Site is 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), 2,500 ppm Total Petroleum Hydrocarbons (TPH), and 1,000 ppm combined GRO and DRO. Characterization of vertical and horizontal extent of chloride concentration to a level of 10,000 milligrams per kilogram (mg/kg) or ppm is also required.

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Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Lava Fee #001 – 32.330185, -104.173271						
Depth to Groundwater		Closure Criteria (units 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 or no water data within 1/2 mile		600	100		50	10
51 ft to 100 ft		10000	2500	1000	50	10
greater than 100 ft		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 floodplain?	No					

Site Assessment & Remediation Activities

Off-site Remediation

Beginning August 20, 2021, Devon contracted Wescom to begin delineation activities to determine the horizontal and vertical extent of the off-site spill area. Confirmation samples were collected to determine the extent of the overspray area in the field to the West of the CTB, see Figure 1. The sudan crop in the field was cut and bailed and the soil was tilled under for fall planting before the release occurred. Per landowner request, impacted soils in the field are to remain in place.

On September 07, 2021, Wescom personnel arrived onsite to begin excavation of the road area in between the field and the CTB, shown in Figure 2. Excavation of the road area was completed on September 14, 2021. Approximately 200 yards of contaminated soil was removed from the road area and disposed of at an approved facility. Confirmation sampling was completed over the five-day excavation period. Since the road in between the field and the CTB is off-site, Devon was committed to removing as much of the contaminated soil as possible. Confirmation results from the road area are well below the applicable RRAL for the Site and are presented in Table 3 and Figure 2.

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On-site Assessment

Wescom personnel conducted a liner inspection on September 08, 2021 and three potential release points were identified within containment: a half-inch hole was found between tanks 123514-3 and 69718 on the South side of containment, a one-inch tear was located to the Southeast side of the treating tower (S/N): V3910 and a ten-inch tear was found to the East side of the treating tower (S/N): V3910 (see Attachment B). The results of the inspection determined that delineation activities would be required.

Wescom personnel conducted horizontal delineation sampling around the outside of the containment on September 10, 2021. Samples surrounding the containment were below the applicable RRAL (see Table 2 and Figure 3). Vertical delineation sampling as well as confirmation sampling was completed inside containment on September 10, 2021. CONF01 was collected from the ten-inch tear to the East side of the treating tower and was below RRALs at a depth of one and a half feet below ground surface (bgs). CONF02 was collected from the one-inch tear located to the Southeast of the treating tower and was below RRALs at a depth of four feet bgs. CONF03 was collected from the small hole in between tanks 123514-3 and 69718 and was below the applicable RRAL at a depth of one-foot bgs. All three holes were immediately patched by Rose Gold Oil Field Services. Wescom personnel returned to the Site on October 18, 2021 to resample the three confirmation areas at surface. CONF03A was below the applicable RRAL at zero feet bgs. Rose Gold Oil Field Services was onsite to patch the new holes in the liner after the sampling event had been completed.

The required 48-hour liner inspection and confirmation sampling notifications were sent on September 03, September 10, September 13, and October 13, 2021 to Victoria Venegas, Robert Hamlet, Chad Hensley and Mike Bratcher with the NMOCD in Santa Fe, New Mexico.

Confirmation composite samples were obtained from September 07 through September 14, 2021 and again on October 18, 2021. 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 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0/9056A. The results are presented in Table 3 and Table 4. Laboratory Analytical Reports are included in Attachment E. Locations of samples are shown in Figures 1, 2 and 3.

Request for Deferral

On behalf of Devon, Wescom requests to defer approximately 828 cubic yards of contaminated soil until the Lava Fee #001 well is plugged and abandoned and reclamation activities commence based on the logic below. Area requested for deferral is shown in Figure 3.

- All confirmation areas meet the RRALs, except CONF01A and CONF02A (see Table 4 and Figure 3), which are surrounding the existing separator S/N: V3910 and fall within the area requested for deferral.
- Due to the location of the contaminated soil, it is not practical to remove for remediation. This separator and well are currently active and would require shutting in the well for an extended period in order to remove substrate beneath separator containment.

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- The existing separator containment is intact, holes in the liner have been patched by Rose Gold Oil Field Services. The liner will act as a barrier to future hydrostatic pressure in existing contaminated soil, inhibiting the potential for transport of contamination to groundwater.

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

Figures

- Figure 1. Off-Site Spill Area
- Figure 2. Off-Site Excavation Area
- Figure 3. On-Site Spill Area

Tables

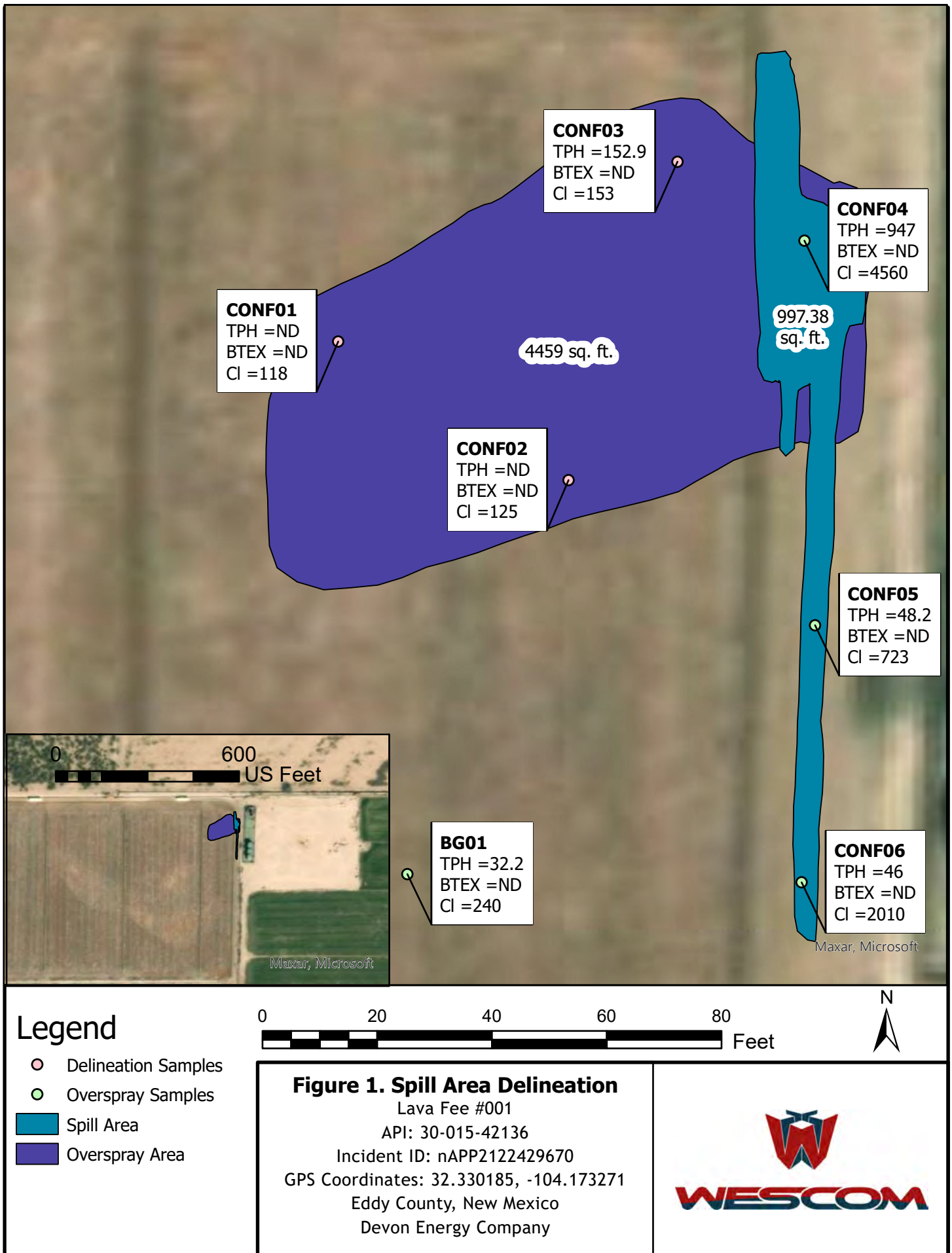
- Table 1. Laboratory Analysis Results – Delineation Sampling (Off-Site)
- Table 2. Laboratory Analysis Results – Delineation Sampling (On-Site)
- Table 3. Laboratory Analysis Results – Confirmation Sampling (Off-Site)
- Table 4. Laboratory Analysis Results – Confirmation Sampling (On-Site)

Attachments

- Attachment A. C-141
- Attachment B. Site Photos
- Attachment C. Closure Criteria Research
- Attachment D. Karst Map
- Attachment E. Envirotech, Inc. Laboratory Analysis Reports

Figures





Sample Results

ID	Depth	BTEX	TPH	CL	ID	Depth	BTEX	TPH	CL
CONF23	0	ND	65.4	261	CONF12	3	ND	ND	436
CONF24	0	ND	64.3	287	CONF13	4.5	ND	ND	815
CONF25	0	ND	77.9	278	CONF14	4.5	ND	ND	688
CONF07	0.66	ND	ND	267	BG01	0	ND	32.2	240
CONF08	4.5	ND	ND	638	CONF15-Wall	0	ND	ND	642
CONF09	4.5	ND	ND	237	CONF18-Wall	0	ND	ND	766
CONF10	4.5	ND	ND	675	CONF17-Wall	0	ND	ND	802
CONF11	3	ND	ND	417	CONF16-Wall	0	ND	ND	227



Legend

- Confirmation Samples
- Off-Site Excavation Area

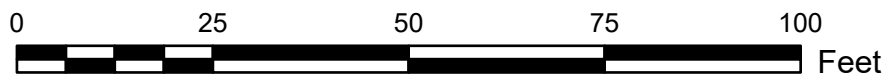
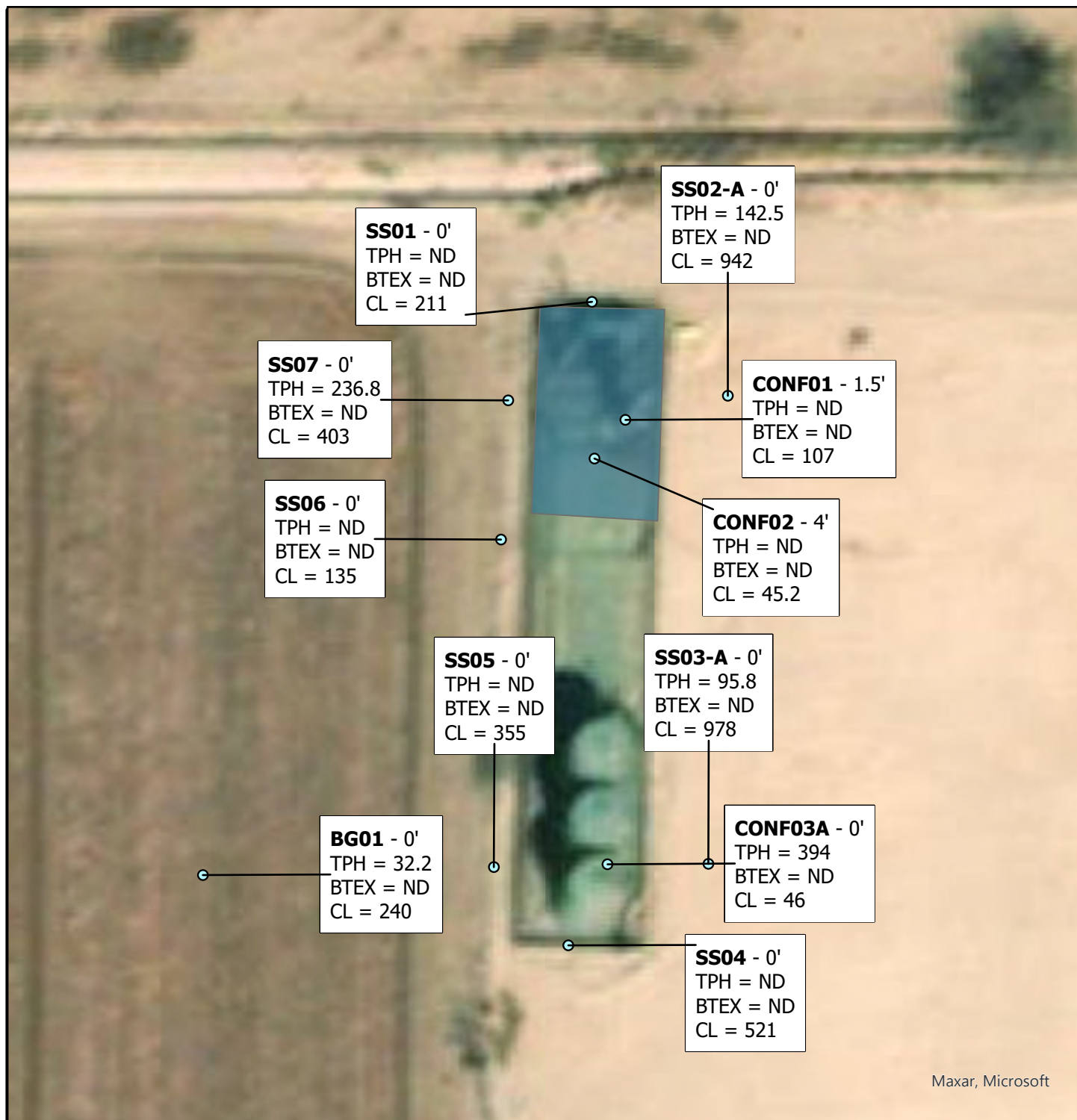


Figure 2. Off-Site Excavation Area

Lava Fee #001
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 Eddy County, New Mexico
 Devon Energy Company





Legend

- On-Site Sample Points
- Area of Requested Deferral

0 37.5 75 112.5 150 Feet



Figure 3. On-Site Spill Area

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 GPS Coordinates: 32.330185, -104.173271
 Eddy County, New Mexico
 Devon Energy Company



Tables





Lava Fee #1 Devon Energy October 27, 2021							
Table 1. Laboratory Analysis Results - Off-Site Delineation							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	10000
BG01	0	8/20/21	ND	ND	32.2	32.2	240
BG01	2	8/20/21	ND	ND	ND	ND	396
CONF01	0	8/20/21	ND	ND	ND	ND	118
CONF02	0	8/20/21	ND	ND	ND	ND	125
CONF03	0	8/20/21	ND	ND	152.9	50.9	153
CONF04	0	8/20/21	ND	ND	947	681	4560
CONF05	0	8/20/21	ND	ND	48.2	48.2	723
CONF06	0	8/20/21	ND	ND	46	46	2010
Abbreviations:							
BTEX - Benzene, Toluene, Ethylbenzene, Xylene				GRO - Gasoline Range Organics			
DRO - Diesel Range Organics				mg/kg - milligrams per kilogram			
ft. - feet				ND - Non-detect			
				TPH - Total Petroleum Hydrocarbons			
Notes:							
Red Bold - Results are greater than closure criteria.							



Lava Fee #1 Devon Energy October 27, 2021							
Table 2. Laboratory Analysis Results - On-Site Delineation							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	10000
BG01	0	8/20/21	ND	ND	32.2	32.2	240
BG01	2	8/20/21	ND	ND	ND	ND	396
SS01	0	9/15/21	ND	ND	ND	ND	211
SS02-A	0	9/15/21	ND	ND	142.5	36.5	942
SS03-A	0	9/15/21	ND	ND	95.8	28.3	978
SS04	0	9/15/21	ND	ND	ND	ND	521
SS05	0	9/15/21	ND	ND	ND	ND	355
SS06	0	9/15/21	ND	ND	ND	ND	135
SS07	0	9/15/21	ND	ND	236.8	98.8	403
Abbreviations:							
BTEX - Benzene, Toluene, Ethylbenzene, Xylene				GRO - Gasoline Range Organics			
DRO - Diesel Range Organics				mg/kg - milligrams per kilogram			
ft. - feet				ND - Non-detect			
GRO -				TPH - Total Petroleum Hydrocarbons			
Notes:							
Red Bold - Results are greater than closure criteria.							



Lava Fee #1 Devon Energy October 27, 2021							
Table 3. Laboratory Analysis Results - Off-Site							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	10000
BG01	0	8/20/21	ND	ND	32.2	32.2	240
BG01	2	8/20/21	ND	ND	ND	ND	396
CONF01	0	8/20/21	ND	ND	ND	ND	118
CONF02	0	8/20/21	ND	ND	ND	ND	125
CONF03	0	8/20/21	ND	ND	152.9	50.9	153
CONF04	0	8/20/21	ND	ND	947	681	4560
CONF05	0	8/20/21	ND	ND	48.2	48.2	723
CONF06	0	8/20/21	ND	ND	46	46	2010
CONF07	8"	9/15/21	ND	ND	ND	ND	267
CONF08	4.5	9/16/21	ND	ND	ND	ND	638
CONF09	4.5	9/16/21	ND	ND	ND	ND	237
CONF10	4.5	9/16/21	ND	ND	ND	ND	675
CONF11	3	9/15/21	ND	ND	ND	ND	417
CONF12	3	9/15/21	ND	ND	ND	ND	436
CONF13	4.5	9/16/21	ND	ND	ND	ND	815
CONF14	4.5	9/16/21	ND	ND	ND	ND	688
CONF15	Wall	9/16/21	ND	ND	ND	ND	642
CONF16	Wall	9/16/21	ND	ND	ND	ND	227
CONF17	Wall	9/16/21	ND	ND	ND	ND	802
CONF18	Wall	9/16/21	ND	ND	ND	ND	766
CONF23	0	9/15/21	ND	ND	65.4	ND	261
CONF24	0	9/15/21	ND	ND	64.3	ND	287
CONF25	0	9/15/21	ND	ND	77.9	ND	278
Abbreviations:							
BTEX - Benzene, Toluene, Ethylbenzene, Xylene				GRO - Gasoline Range Organics			
DRO - Diesel Range Organics				mg/kg - milligrams per kilogram			
ft. - feet				ND - Non-detect			
				TPH - Total Petroleum Hydrocarbons			
Notes:							
Red Bold - Results are greater than closure criteria.							



Lava Fee #1 Devon Energy October 27, 2021							
Table 4. Laboratory Analysis Results - On-Site							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	10000
BG01	0	8/20/21	ND	ND	32.2	32.2	240
BG01	2	8/20/21	ND	ND	ND	ND	396
CONF01	1.5	9/15/21	ND	ND	ND	ND	107
CONF01A	0	10/20/21	ND	0.671	8018	6018	190
CONF02	4	9/15/21	ND	ND	ND	ND	45.2
CONF02A	0	10/20/21	ND	6.67	11716	8836	423
CONF03	1	9/15/21	ND	ND	28.4	28.4	173
CONF03A	0	10/20/21	ND	ND	394	182	46
Abbreviations: BTEX - Benzene, Toluene, Ethylbenzene, Xylene DRO - Diesel Range Organics ft. - feet GRO - Gasoline Range Organics mg/kg - milligrams per kilogram ND - Non-detect TPH - Total Petroleum Hydrocarbons							
Notes: Red Bold - Resampled Confirmation area; results are above closure criteria. Black Bold - Original Confirmation area; results are below closure criteria.							

Attachment A

Signed C-141



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	nAPP2122429670
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) nAPP2122429670
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.3301849 _____ Longitude -104.1732712 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: LAVA FEE #001	Site Type: Oil Production Facility
Date Release Discovered: Aug 10 th , 2021	API# (if applicable) 30-015-42136

Unit Letter	Section	Township	Range	County
P	03	23S	27E	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 3	Volume Recovered (bbls) 2
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 3	Volume Recovered (bbls) 2
	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: Gasket on manway cover failed, allowing fluids to be released to lined secondary containment. Small area of vegetation, outside of containment, was misted with fluids.


$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity(\%) + recovered\ fluids\ (bbl)$$

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District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>James Raley</u> Title: Environmental Specialist <u></u>	
Signature: <u></u> Date: <u>08/16/2021</u>	
email: <u>jim.raley@dvn.com</u> Telephone: <u>575-689-7597</u>	
<u>OCD Only</u> Received by: <u></u> Date: <u></u>	

Incident ID	nAPP2122429670
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>72</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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District RP	
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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: James Raley

Title: Environmental Specialist

Signature:  Date: 10/28/2021

email: Jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2122429670
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: James Raley Title: Environmental Professional
Signature:  Date: 10/28/2021
email: jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: Chad Hensley Date: 12/15/2021

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature:  Date: 12/15/2021

Attachment B

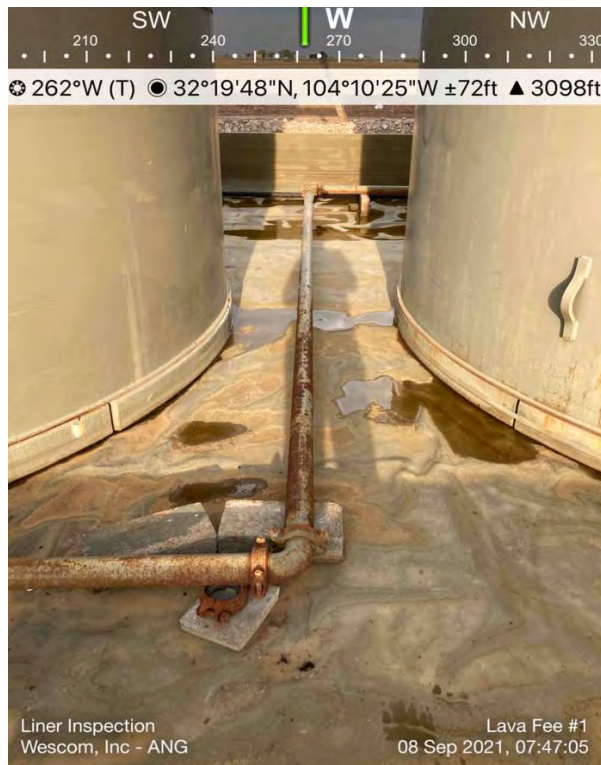
Site Photos



Lava Fee #001
Incident ID: NAPP2122429670



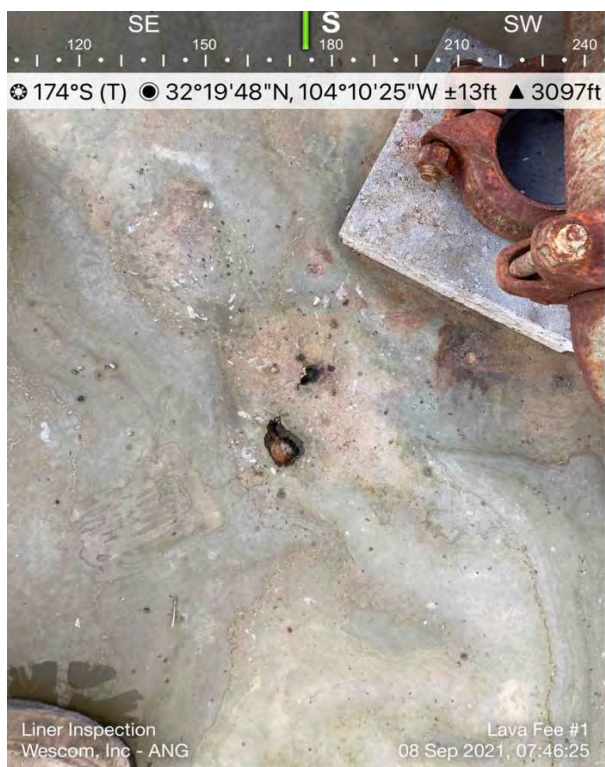
Liner Inspection



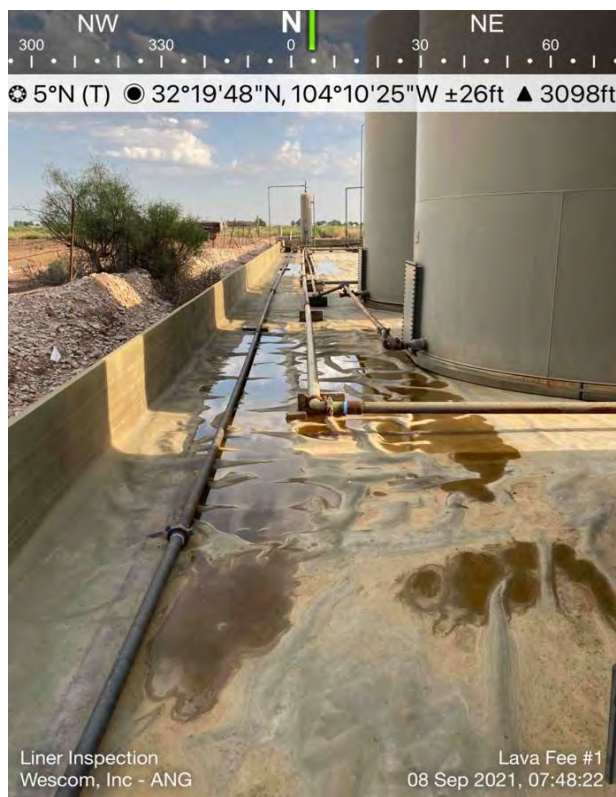
1/2" Hole - Between tanks 123514-3 and 69718

Lava Fee #001

Incident ID: NAPP2122429670



1/2" Hole - Between tanks 123514-3 and 69718



West Side - Containment

Lava Fee #001

Incident ID: NAPP2122429670



South Side - Containment



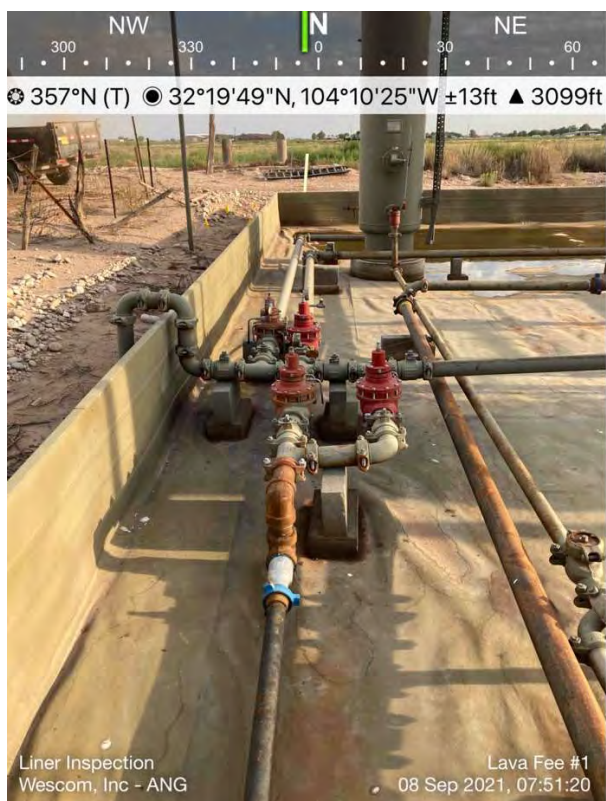
10" tear - East of Treating Tower S/N: V3910

Lava Fee #001

Incident ID: NAPP2122429670



1" tear - South side of Treating Tower S/N: V3910



Northwest Side - Containment

Lava Fee #001

Incident ID: NAPP2122429670



Confirmation Sampling - CONF03A



Confirmation Sampling - CONF02A



Lava Fee #001

Incident ID: NAPP2122429670



Excavation Area - Off-Site



Excavation Area - Off-Site

Attachment C

Closure Criteria Research





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
C	03072	3	4	2	03 23S 27E	577873	3577869*

Driller License: 1348**Driller Company:** TAYLOR WATER WELL SERVICE**Driller Name:****Drill Start Date:** 06/06/2005**Drill Finish Date:** 06/14/2005**Plug Date:****Log File Date:** 08/15/2005**PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:** 200 GPM**Casing Size:** 5.00**Depth Well:** 119 feet**Depth Water:** 72 feet**Water Bearing Stratifications:****Top Bottom Description**

30	36	Sandstone/Gravel/Conglomerate
74	86	Sandstone/Gravel/Conglomerate
99	119	Sandstone/Gravel/Conglomerate

Casing Perforations:**Top Bottom**

79	119
----	-----

*UTM location was derived from PLSS - see Help

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.

8/16/21 8:19 AM

Page 1 of 1

POD SUMMARY - C 03072






(in feet)

nmwrns ose state nm us/nmwrns/ReportProxy?queryData=%7B%22report%22%3A%22drillerLog%22%2C%22BasinDiv%22%3A%22false%22%2C%22radiusBox%22%3A%22radiu... 1/5

Lava Fee #001

Distance to nearest Depth to Water point = 0.33 miles

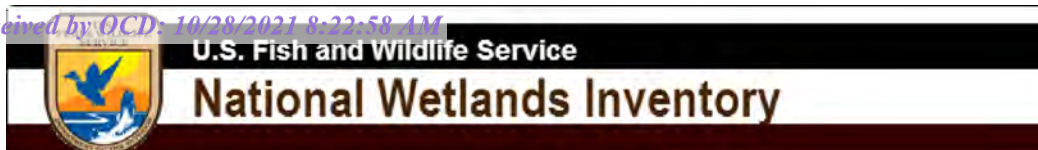
Legend

-  Distance = 0.33 miles
-  DTW = 72 feet - C 03072
-  Lava Fee #001

DTW = 72 feet - C 03072

Lava Fee #001





Lava Fee #001 - Riverine 1,220 ft.



August 16, 2021

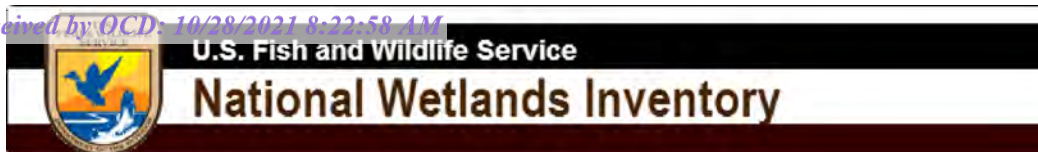
Wetlands

- 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.



Lava Fee #001 - FW Pond 21,520 ft.



August 16, 2021

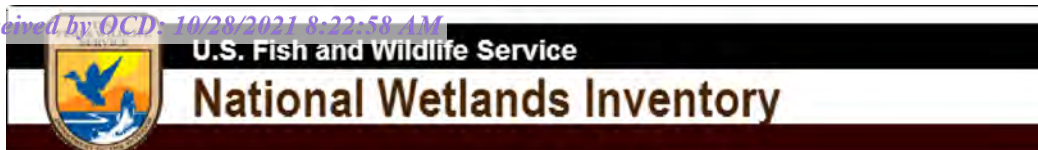
Wetlands

- 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.



Lava Fee #001 - Wetland 16,574.6 ft.



August 16, 2021

Wetlands

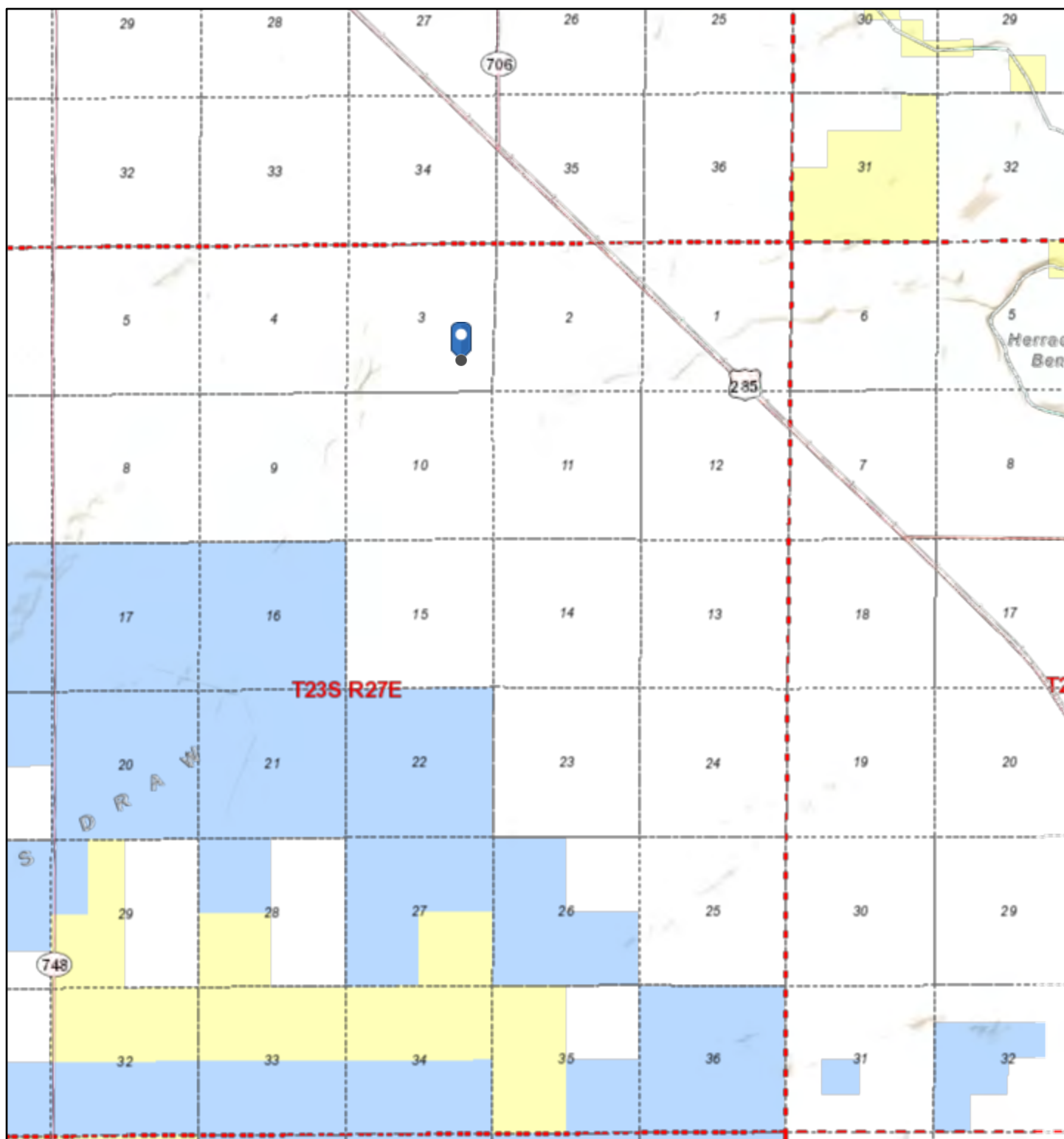
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

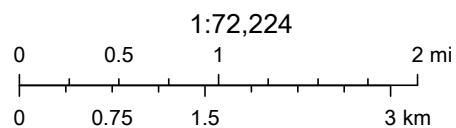
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Active Mines Near Lava Fee #001



8/16/2021, 9:16:30 AM

- . . . Township / Range
 --- Sections
 Land Ownership
 Bureau of Land Management
 Bureau of Reclamation
 Department of Agriculture
 Department of Defense
 Department of Energy
 National Park Service
 Private Land
 State Game and Fish
 State Land
 State Parks
 Tribal

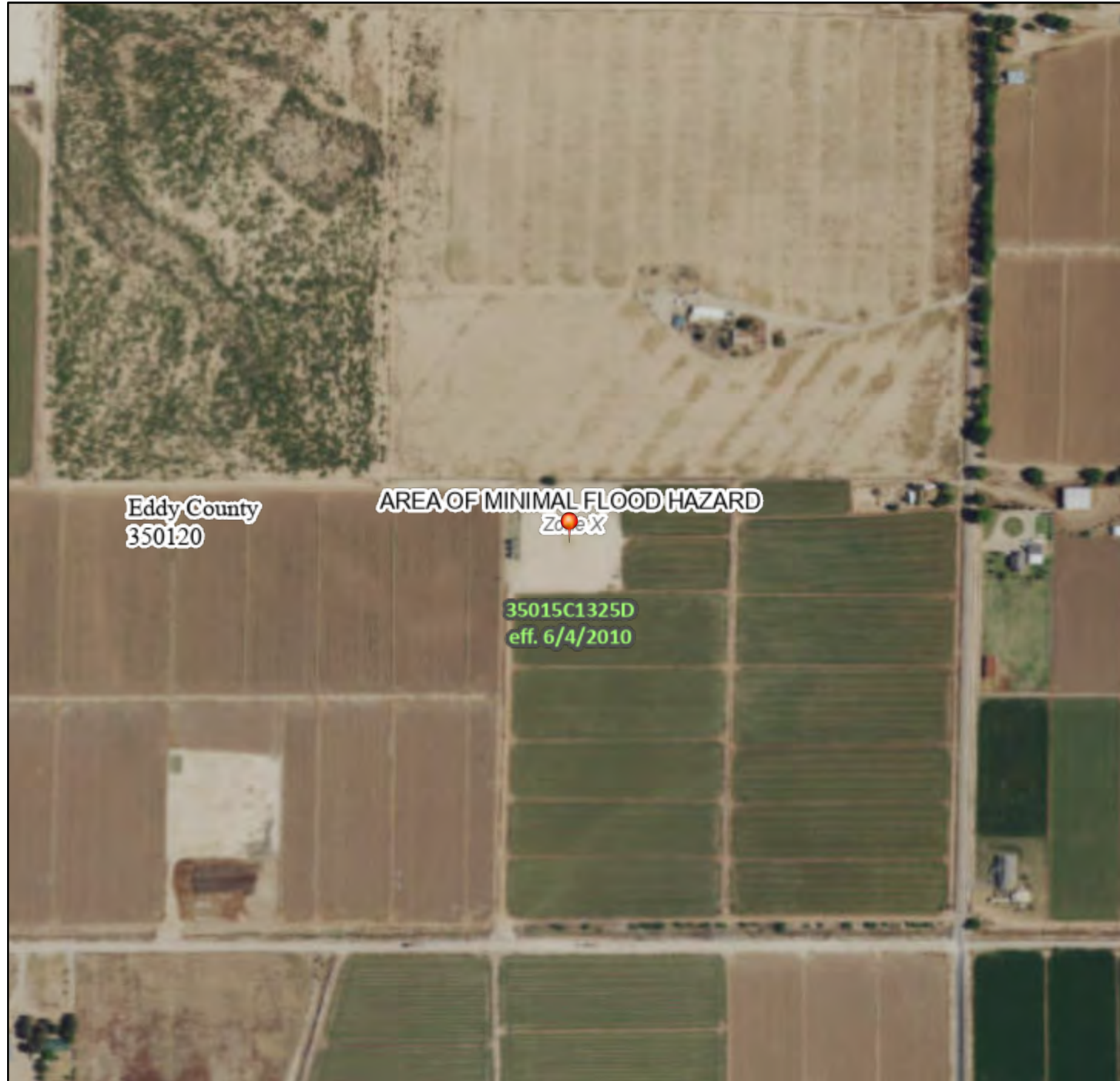


U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

National Flood Hazard Layer FIRMette



104°10'43"W 32°20'4"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		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 Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		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
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 **8/16/2021 at 11:19 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



Lava Fee #001

Karst Potential = Medium

Legend

- High
- Lava Fee #001
- Low
- Medium

Lava Fee #001



Attachment E

Envirotech, Inc. Laboratory Analysis Reports



Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Lava Fee #1

Work Order: E108095

Job Number: 01058-0007

Received: 8/24/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/27/21

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: 8/27/21

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Lava Fee #1
Workorder: E108095
Date Received: 8/24/2021 6:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/24/2021 6:00:00PM, under the Project Name: Lava Fee #1.

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

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

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

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

Respectfully,

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

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

Alexa Michaels
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labadmin@envirotech-inc.com

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West Texas Midland/Odessa Area
Tom Brown
Technical Representative
Cell: 832-444-7704
tbrown@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Lava Fee #1	Reported: 08/27/21 15:17
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01-0'	E108095-01A	Soil	08/20/21	08/24/21	Glass Jar, 4 oz.
BG01-2'	E108095-02A	Soil	08/20/21	08/24/21	Glass Jar, 4 oz.
CONF06-0'	E108095-03A	Soil	08/20/21	08/24/21	Glass Jar, 4 oz.
CONF05-0'	E108095-04A	Soil	08/20/21	08/24/21	Glass Jar, 4 oz.
CONF01-0'	E108095-05A	Soil	08/20/21	08/24/21	Glass Jar, 4 oz.
CONF04-0'	E108095-06A	Soil	08/20/21	08/24/21	Glass Jar, 4 oz.
CONF03-0'	E108095-07A	Soil	08/20/21	08/24/21	Glass Jar, 4 oz.
CONF02-0'	E108095-08A	Soil	08/20/21	08/24/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: Lava Fee #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/27/2021 3:17:33PM

BG01-0'

E108095-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2135034
Benzene	ND	0.0250	1	08/26/21	08/26/21	
Ethylbenzene	ND	0.0250	1	08/26/21	08/26/21	
Toluene	ND	0.0250	1	08/26/21	08/26/21	
o-Xylene	ND	0.0250	1	08/26/21	08/26/21	
p,m-Xylene	ND	0.0500	1	08/26/21	08/26/21	
Total Xylenes	ND	0.0250	1	08/26/21	08/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		08/26/21	08/26/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2135034
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/21	08/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	113 %	70-130		08/26/21	08/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2135035
Diesel Range Organics (C10-C28)	32.2	25.0	1	08/26/21	08/26/21	T14
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/21	08/26/21	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		08/26/21	08/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2135031
Chloride	240	20.0	1	08/26/21	08/26/21	



Sample Data

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

Project Name: Lava Fee #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/27/2021 3:17:33PM

BG01-2'

E108095-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Benzene	ND	0.0250	1	08/26/21	08/26/21	
Ethylbenzene	ND	0.0250	1	08/26/21	08/26/21	
Toluene	ND	0.0250	1	08/26/21	08/26/21	
o-Xylene	ND	0.0250	1	08/26/21	08/26/21	
p,m-Xylene	ND	0.0500	1	08/26/21	08/26/21	
Total Xylenes	ND	0.0250	1	08/26/21	08/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.5 %	70-130	08/26/21	08/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/21	08/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	08/26/21	08/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2135035	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/21	08/26/21	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/21	08/26/21	
<i>Surrogate: n-Nonane</i>		108 %	50-200	08/26/21	08/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2135031	
Chloride	396	20.0	1	08/26/21	08/26/21	



Sample Data

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

Project Name: Lava Fee #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/27/2021 3:17:33PM

CONF06-0'

E108095-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Benzene	ND	0.0250	1	08/26/21	08/26/21	
Ethylbenzene	ND	0.0250	1	08/26/21	08/26/21	
Toluene	ND	0.0250	1	08/26/21	08/26/21	
o-Xylene	ND	0.0250	1	08/26/21	08/26/21	
p,m-Xylene	ND	0.0500	1	08/26/21	08/26/21	
Total Xylenes	ND	0.0250	1	08/26/21	08/26/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.3 %	70-130	08/26/21	08/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/21	08/26/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		114 %	70-130	08/26/21	08/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2135035	
Diesel Range Organics (C10-C28)	46.0	25.0	1	08/26/21	08/26/21	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/21	08/26/21	
<i>Surrogate: n-Nonane</i>		101 %	50-200	08/26/21	08/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2135031	
Chloride	2010	40.0	2	08/26/21	08/26/21	



Sample Data

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

Project Name: Lava Fee #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/27/2021 3:17:33PM

CONF05-0'

E108095-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Benzene	ND	0.0250	1	08/26/21	08/27/21	
Ethylbenzene	ND	0.0250	1	08/26/21	08/27/21	
Toluene	ND	0.0250	1	08/26/21	08/27/21	
o-Xylene	ND	0.0250	1	08/26/21	08/27/21	
p,m-Xylene	ND	0.0500	1	08/26/21	08/27/21	
Total Xylenes	ND	0.0250	1	08/26/21	08/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.7 %	70-130	08/26/21	08/27/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/21	08/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	08/26/21	08/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2135035	
Diesel Range Organics (C10-C28)	48.2	25.0	1	08/26/21	08/26/21	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/21	08/26/21	
<i>Surrogate: n-Nonane</i>		106 %	50-200	08/26/21	08/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2135031	
Chloride	723	20.0	1	08/26/21	08/26/21	



Sample Data

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

Project Name: Lava Fee #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/27/2021 3:17:33PM

CONF01-0'

E108095-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Benzene	ND	0.0250	1	08/26/21	08/27/21	
Ethylbenzene	ND	0.0250	1	08/26/21	08/27/21	
Toluene	ND	0.0250	1	08/26/21	08/27/21	
o-Xylene	ND	0.0250	1	08/26/21	08/27/21	
p,m-Xylene	ND	0.0500	1	08/26/21	08/27/21	
Total Xylenes	ND	0.0250	1	08/26/21	08/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.2 %	70-130	08/26/21	08/27/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/21	08/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		116 %	70-130	08/26/21	08/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2135035	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/21	08/26/21	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/21	08/26/21	
<i>Surrogate: n-Nonane</i>		118 %	50-200	08/26/21	08/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2135031	
Chloride	118	20.0	1	08/26/21	08/26/21	



Sample Data

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

Project Name: Lava Fee #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/27/2021 3:17:33PM

CONF04-0'

E108095-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2135034
Benzene	ND	0.0250	1	08/26/21	08/27/21	
Ethylbenzene	ND	0.0250	1	08/26/21	08/27/21	
Toluene	ND	0.0250	1	08/26/21	08/27/21	
o-Xylene	ND	0.0250	1	08/26/21	08/27/21	
p,m-Xylene	ND	0.0500	1	08/26/21	08/27/21	
Total Xylenes	ND	0.0250	1	08/26/21	08/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	08/26/21	08/27/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2135034
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/21	08/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		116 %	70-130	08/26/21	08/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2135035
Diesel Range Organics (C10-C28)	681	25.0	1	08/26/21	08/26/21	
Oil Range Organics (C28-C36)	266	50.0	1	08/26/21	08/26/21	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	08/26/21	08/26/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2135031
Chloride	4560	100	5	08/26/21	08/26/21	



Sample Data

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

Project Name: Lava Fee #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/27/2021 3:17:33PM

CONF03-0'

E108095-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Benzene	ND	0.0250	1	08/26/21	08/27/21	
Ethylbenzene	ND	0.0250	1	08/26/21	08/27/21	
Toluene	ND	0.0250	1	08/26/21	08/27/21	
o-Xylene	ND	0.0250	1	08/26/21	08/27/21	
p,m-Xylene	ND	0.0500	1	08/26/21	08/27/21	
Total Xylenes	ND	0.0250	1	08/26/21	08/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.1 %	70-130	08/26/21	08/27/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/21	08/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		113 %	70-130	08/26/21	08/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2135035	
Diesel Range Organics (C10-C28)	50.9	25.0	1	08/26/21	08/26/21	
Oil Range Organics (C28-C36)	102	50.0	1	08/26/21	08/26/21	
<i>Surrogate: n-Nonane</i>		85.4 %	50-200	08/26/21	08/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2135031	
Chloride	153	20.0	1	08/26/21	08/26/21	



Sample Data

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

Project Name: Lava Fee #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/27/2021 3:17:33PM

CONF02-0'

E108095-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Benzene	ND	0.0250	1	08/26/21	08/27/21	
Ethylbenzene	ND	0.0250	1	08/26/21	08/27/21	
Toluene	ND	0.0250	1	08/26/21	08/27/21	
o-Xylene	ND	0.0250	1	08/26/21	08/27/21	
p,m-Xylene	ND	0.0500	1	08/26/21	08/27/21	
Total Xylenes	ND	0.0250	1	08/26/21	08/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.2 %	70-130	08/26/21	08/27/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2135034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/21	08/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	08/26/21	08/27/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2135035	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/21	08/26/21	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/21	08/26/21	
<i>Surrogate: n-Nonane</i>		114 %	50-200	08/26/21	08/26/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2135031	
Chloride	125	20.0	1	08/26/21	08/26/21	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/27/2021 3:17:33PM

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 (2135034-BLK1)

Prepared: 08/26/21 Analyzed: 08/27/21

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	7.48		8.00		93.5	70-130			

LCS (2135034-BS1)

Prepared: 08/26/21 Analyzed: 08/26/21

Benzene	4.53	0.0250	5.00		90.5	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.78	0.0250	5.00		95.7	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.42	0.0500	10.0		94.2	70-130			
Total Xylenes	14.2	0.0250	15.0		94.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike (2135034-MS1)

Source: E108094-01 Prepared: 08/26/21 Analyzed: 08/26/21

Benzene	4.54	0.0250	5.00	ND	90.7	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.5	61-133			
Toluene	4.80	0.0250	5.00	ND	96.1	61-130			
o-Xylene	4.78	0.0250	5.00	ND	95.7	63-131			
p,m-Xylene	9.46	0.0500	10.0	ND	94.6	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	95.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

Matrix Spike Dup (2135034-MSD1)

Source: E108094-01 Prepared: 08/26/21 Analyzed: 08/26/21

Benzene	4.43	0.0250	5.00	ND	88.6	54-133	2.36	20	
Ethylbenzene	4.54	0.0250	5.00	ND	90.8	61-133	2.96	20	
Toluene	4.67	0.0250	5.00	ND	93.4	61-130	2.83	20	
o-Xylene	4.65	0.0250	5.00	ND	92.9	63-131	2.91	20	
p,m-Xylene	9.20	0.0500	10.0	ND	92.0	63-131	2.81	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.3	63-131	2.84	20	
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/27/2021 3:17:33PM

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 (2135034-BLK1)

Prepared: 08/26/21 Analyzed: 08/27/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.37		8.00		117	70-130			

LCS (2135034-BS2)

Prepared: 08/26/21 Analyzed: 08/26/21

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.52		8.00		119	70-130			

Matrix Spike (2135034-MS2)

Source: E108094-01 Prepared: 08/26/21 Analyzed: 08/26/21

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0	ND	108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.03		8.00		113	70-130			

Matrix Spike Dup (2135034-MSD2)

Source: E108094-01 Prepared: 08/26/21 Analyzed: 08/26/21

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130	2.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.02		8.00		113	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/27/2021 3:17:33PM

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 (2135035-BLK1)

Prepared: 08/26/21 Analyzed: 08/26/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.8		50.0		110	50-200			

LCS (2135035-BS1)

Prepared: 08/26/21 Analyzed: 08/26/21

Diesel Range Organics (C10-C28)	543	25.0	500		109	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike (2135035-MS1)

Source: E108095-01 Prepared: 08/26/21 Analyzed: 08/26/21

Diesel Range Organics (C10-C28)	655	25.0	500	32.2	125	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			

Matrix Spike Dup (2135035-MSD1)

Source: E108095-01 Prepared: 08/26/21 Analyzed: 08/26/21

Diesel Range Organics (C10-C28)	663	25.0	500	32.2	126	38-132	1.17	20	
Surrogate: n-Nonane	58.0		50.0		116	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/27/2021 3:17:33PM

Anions by EPA 300.0/9056A

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 (2135031-BLK1)

Prepared: 08/26/21 Analyzed: 08/26/21

Chloride ND 20.0

LCS (2135031-BS1)

Prepared: 08/26/21 Analyzed: 08/26/21

Chloride 250 20.0 250 100 90-110

Matrix Spike (2135031-MS1)

Source: E108093-01 Prepared: 08/26/21 Analyzed: 08/26/21

Chloride 292 20.0 250 37.7 102 80-120

Matrix Spike Dup (2135031-MSD1)

Source: E108093-01 Prepared: 08/26/21 Analyzed: 08/26/21

Chloride 293 20.0 250 37.7 102 80-120 0.239 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
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Lava Fee #1
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
08/27/21 15:17

T14 DRO includes a complex mixture of diesel range organics that is not characteristic of diesel fuel.

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.



Envirotech Analytical Laboratory

Printed: 8/25/2021 16:35:43

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Devon Energy - Carlsbad
 Phone: (505) 382-1211
 Email: ashley.giovenego@wescominc.com

Date Received: 08/24/21 18:00
 Date Logged In: 08/25/21 16:31
 Due Date: 08/27/21 17:00 (3 day TAT)

Work Order ID: E108095
 Logged In By: Irene Yazzie

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: Fed ExSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
 8. If yes, was cooler received in good condition? Yes
 9. Was the sample(s) received intact, i.e., not broken? Yes
 10. Were custody/security seals present? No
 11. If yes, were custody/security seals intact? NA
 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes
- Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

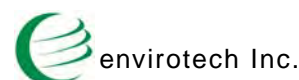
Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client InstructionComments/Resolution

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

Date



Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Lava Fee #001

Work Order: E109040

Job Number: 01058-0007

Received: 9/14/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/20/21

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: 9/20/21



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Lava Fee #001
Workorder: E109040
Date Received: 9/14/2021 11:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/14/2021 11:00:00AM, under the Project Name: Lava Fee #001.

The analytical test results summarized in this report with the Project Name: Lava Fee #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

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported: 09/20/21 14:41
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF 23 - 0'	E109040-01A	Soil	09/09/21	09/14/21	Glass Jar, 4 oz.
CONF 24 - 0'	E109040-02A	Soil	09/09/21	09/14/21	Glass Jar, 4 oz.
CONF 25 - 0'	E109040-03A	Soil	09/09/21	09/14/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:41:55PM

CONF 23 - 0'

E109040-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
Surrogate: 4-Bromochlorobenzene-PID	94.6 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/16/21	
Oil Range Organics (C28-C36)	65.4	50.0	1	09/15/21	09/16/21	
Surrogate: n-Nonane	103 %	50-200		09/15/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138028
Chloride	261	20.0	1	09/15/21	09/15/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:41:55PM

CONF 24 - 0'

E109040-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/16/21	
Oil Range Organics (C28-C36)	64.3	50.0	1	09/15/21	09/16/21	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		09/15/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138028
Chloride	287	20.0	1	09/15/21	09/15/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:41:55PM

CONF 25 - 0'

E109040-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.5 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/16/21	
Oil Range Organics (C28-C36)	77.9	50.0	1	09/15/21	09/16/21	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	09/15/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138028
Chloride	278	20.0	1	09/15/21	09/16/21	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:41:55PM

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 (2138022-BLK1)

Prepared: 09/15/21 Analyzed: 09/16/21

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	7.87		8.00		98.4	70-130			

LCS (2138022-BS1)

Prepared: 09/15/21 Analyzed: 09/16/21

Benzene	4.79	0.0250	5.00		95.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		93.0	70-130			
Toluene	4.83	0.0250	5.00		96.5	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.2	0.0250	15.0		94.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

Matrix Spike (2138022-MS1)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Benzene	4.82	0.0250	5.00	ND	96.4	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133			
Toluene	4.88	0.0250	5.00	ND	97.7	61-130			
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131			
p,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.35		8.00		104	70-130			

Matrix Spike Dup (2138022-MSD1)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Benzene	4.90	0.0250	5.00	ND	98.0	54-133	1.56	20	
Ethylbenzene	4.79	0.0250	5.00	ND	95.8	61-133	1.10	20	
Toluene	4.94	0.0250	5.00	ND	98.8	61-130	1.20	20	
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131	1.32	20	
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	63-131	1.10	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131	1.17	20	
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:41:55PM

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 (2138022-BLK1)

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

LCS (2138022-BS2)

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike (2138022-MS2)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2138022-MSD2)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130	2.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:41:55PM

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 (2138026-BLK1)

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.3		50.0		92.5	50-200			

LCS (2138026-BS1)

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	485	25.0	500		97.0	38-132			
Surrogate: n-Nonane	47.7		50.0		95.4	50-200			

Matrix Spike (2138026-MS1)

Source: E109041-03

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	553	25.0	500	28.3	105	38-132			
Surrogate: n-Nonane	48.9		50.0		97.9	50-200			

Matrix Spike Dup (2138026-MSD1)

Source: E109041-03

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	531	25.0	500	28.3	100	38-132	4.20	20	
Surrogate: n-Nonane	49.7		50.0		99.3	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:41:55PM

Anions by EPA 300.0/9056A

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 (2138028-BLK1)

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride ND 20.0

LCS (2138028-BS1)

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 246 20.0 250 98.5 90-110

Matrix Spike (2138028-MS1)

Source: E109031-01

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 291 20.0 250 42.8 99.3 80-120

Matrix Spike Dup (2138028-MSD1)

Source: E109031-01

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 301 20.0 250 42.8 103 80-120 3.41 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:	Lava Fee #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/20/21 14:41

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.



Chain of Custody

[illegible]

envirotech

Envirotech Analytical Laboratory

Printed: 9/14/2021 1:51:20PM

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:	09/14/21 11:00	Work Order ID:	E109040
Phone:	(505) 382-1211	Date Logged In:	09/14/21 13:48	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	09/20/21 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: Fed Ex**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: Lava Fee #001

Work Order: E109041

Job Number: 01058-0007

Received: 9/14/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/20/21

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: 9/20/21

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Lava Fee #001
Workorder: E109041
Date Received: 9/14/2021 11:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/14/2021 11:00:00AM, under the Project Name: Lava Fee #001.

The analytical test results summarized in this report with the Project Name: Lava Fee #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 6488 7 Rivers Hwy Artesia NM, 88210	Project Name:	Lava Fee #001	Reported: 09/20/21 14:36
	Project Number:	01058-0007	
	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0"	E109041-01A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS02-A-0'	E109041-02A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS03-A-0'	E109041-03A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS04-0'	E109041-04A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS05-0'	E109041-05A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS06-0'	E109041-06A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS07-0'	E109041-07A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
CONF01-1.5'	E109041-08A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
CONF02-4'	E109041-09A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
CONF03-1'	E109041-10A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Lava Fee #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/20/2021 2:36:55PM
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SS01-0"

E109041-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2138022	
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2138022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2138026	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>		99.7 %	50-200	09/15/21	09/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138029	
Chloride	211	20.0	1	09/15/21	09/15/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS02-A-0'

E109041-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2138022	
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2138022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2138026	
Diesel Range Organics (C10-C28)	36.5	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	106	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>		99.5 %	50-200	09/15/21	09/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138029	
Chloride	942	20.0	1	09/15/21	09/15/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS03-A-0'

E109041-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	28.3	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	67.5	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
	98.9 %	50-200		09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	978	20.0	1	09/15/21	09/15/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS04-0'

E109041-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2138022	
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.2 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2138022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.8 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2138026	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>	103 %	50-200		09/15/21	09/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138029	
Chloride	521	20.0	1	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS05-0'

E109041-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.4 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
		77.4 %	50-200	09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	355	20.0	1	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS06-0'

E109041-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	135	20.0	1	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS07-0'

E109041-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2138022	
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2138022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2138026	
Diesel Range Organics (C10-C28)	98.8	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	138	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>		109 %	50-200	09/15/21	09/15/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2138029	
Chloride	403	20.0	1	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

CONF01-1.5'

E109041-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.5 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
		96.0 %	50-200	09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	107	20.0	1	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

CONF02-4'

E109041-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/17/21	
Toluene	ND	0.0250	1	09/15/21	09/17/21	
o-Xylene	ND	0.0250	1	09/15/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		09/15/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		09/15/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
	99.5 %	50-200		09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	45.2	40.0	2	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

CONF03-1'

E109041-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/17/21	
Toluene	ND	0.0250	1	09/15/21	09/17/21	
o-Xylene	ND	0.0250	1	09/15/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	09/15/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.0 %	70-130	09/15/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	28.4	25.0	1	09/15/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/16/21	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	09/15/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	173	20.0	1	09/15/21	09/16/21	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:36:55PM

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 (2138022-BLK1)

Prepared: 09/15/21 Analyzed: 09/16/21

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	7.87		8.00		98.4	70-130			

LCS (2138022-BS1)

Prepared: 09/15/21 Analyzed: 09/16/21

Benzene	4.79	0.0250	5.00		95.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		93.0	70-130			
Toluene	4.83	0.0250	5.00		96.5	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.2	0.0250	15.0		94.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

Matrix Spike (2138022-MS1)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Benzene	4.82	0.0250	5.00	ND	96.4	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133			
Toluene	4.88	0.0250	5.00	ND	97.7	61-130			
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131			
p,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.35		8.00		104	70-130			

Matrix Spike Dup (2138022-MSD1)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Benzene	4.90	0.0250	5.00	ND	98.0	54-133	1.56	20	
Ethylbenzene	4.79	0.0250	5.00	ND	95.8	61-133	1.10	20	
Toluene	4.94	0.0250	5.00	ND	98.8	61-130	1.20	20	
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131	1.32	20	
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	63-131	1.10	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131	1.17	20	
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:36:55PM

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 (2138022-BLK1)

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

LCS (2138022-BS2)

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike (2138022-MS2)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2138022-MSD2)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130	2.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:36:55PM

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 (2138026-BLK1)

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	46.3		50.0		92.5	50-200			

LCS (2138026-BS1)

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	485	25.0	500		97.0	38-132			
Surrogate: <i>n</i> -Nonane	47.7		50.0		95.4	50-200			

Matrix Spike (2138026-MS1)

Source: E109041-03

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	553	25.0	500	28.3	105	38-132			
Surrogate: <i>n</i> -Nonane	48.9		50.0		97.9	50-200			

Matrix Spike Dup (2138026-MSD1)

Source: E109041-03

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	531	25.0	500	28.3	100	38-132	4.20	20	
Surrogate: <i>n</i> -Nonane	49.7		50.0		99.3	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:36:55PM

Anions by EPA 300.0/9056A

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 (2138029-BLK1)

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride ND 20.0

LCS (2138029-BS1)

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 249 20.0 250 99.6 90-110

Matrix Spike (2138029-MS1)

Source: E109041-01

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 466 20.0 250 211 102 80-120

Matrix Spike Dup (2138029-MSD1)

Source: E109041-01

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 460 20.0 250 211 99.5 80-120 1.35 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:	Lava Fee #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/20/21 14:36

- 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.



Received by OCD: 10/28/2021 8:22:58 AM

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Chain of Custody						Page <u>1</u> of <u> </u>									
Client: <u>Devon Energy</u> Project: <u>Lava Fee #001</u> Project Manager: <u>Ashley Giovenso</u> Address: <u>224 Standpipe Rd</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>505-382-1211</u> Email: <u>ashley.giovenso@wescominc.com</u> Report due by: _____				Bill To Attention: <u>Jim Raley</u> Address: <u>5315 Buena Vista Dr.</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>575-689-7597</u> Email: <u>jim.raley@dvn.com</u>				Lab Use Only Lab WO# <u>E109041</u> Job Number <u>01058-0007</u> Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX				TAT 1D 2D 3D Standard <u>X</u> EPA Program CWA SDWA RCRA State NM CO UT AZ TX <u>X</u>			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks	
1228	7/10/21	S	1 jar	SS01-0"	1							X			
1530	7/10/21	S	1 jar	SS02-A-0'	2							X			
1635	7/10/21	S	1 jar	SS03-A-0'	3							X			
1540	7/10/21	S	1 jar	SS04-0'	4							X			
1542	7/10/21	S	1 jar	SS05-0'	5							X			
1547	7/10/21	S	1 jar	SS06-0'	6							X			
1549	7/10/21	S	1 jar	SS07-0'	7							X			
1350	7/10/21	S	1 jar	CONF01-1.5'	8							X			
1430	7/10/21	S	1 jar	CONF02-4'	9							X			
1500	7/10/21	S	1 jar	CONF03-1'	10							X			
Additional Instructions: <u>Preserved on ice cc shar. harvester @ wescominc.com</u>															
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.															
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								
		9/13/21	9:37am			9.13.21	1310								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
		9.13.21	1650			9/14/21	11:00								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



envirotech

Envirotech Analytical Laboratory

Printed: 9/14/2021 2:02:45PM

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:	09/14/21 11:00	Work Order ID:	E109041
Phone:	(505) 382-1211	Date Logged In:	09/14/21 13:57	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	09/20/21 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: Fed Ex**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: Lava Fee #001

Work Order: E109041

Job Number: 01058-0007

Received: 9/14/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/20/21

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: 9/20/21

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Lava Fee #001
Workorder: E109041
Date Received: 9/14/2021 11:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/14/2021 11:00:00AM, under the Project Name: Lava Fee #001.

The analytical test results summarized in this report with the Project Name: Lava Fee #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

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ljjarboe@envirotech-inc.com

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tbrown@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name:	Lava Fee #001	Reported: 09/20/21 14:36
	Project Number:	01058-0007	
	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0"	E109041-01A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS02-A-0'	E109041-02A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS03-A-0'	E109041-03A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS04-0'	E109041-04A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS05-0'	E109041-05A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS06-0'	E109041-06A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
SS07-0'	E109041-07A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
CONF01-1.5'	E109041-08A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
CONF02-4'	E109041-09A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
CONF03-1'	E109041-10A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS01-0"

E109041-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.9 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
		99.7 %	50-200	09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	211	20.0	1	09/15/21	09/15/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS02-A-0'

E109041-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.7 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	36.5	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	106	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
		99.5 %	50-200	09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	942	20.0	1	09/15/21	09/15/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS03-A-0'

E109041-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	28.3	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	67.5	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
	98.9 %	50-200		09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	978	20.0	1	09/15/21	09/15/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS04-0'

E109041-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	521	20.0	1	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS05-0'

E109041-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.4 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
		77.4 %	50-200	09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	355	20.0	1	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS06-0'

E109041-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	135	20.0	1	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

SS07-0'

E109041-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.8 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	98.8	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	138	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	403	20.0	1	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

CONF01-1.5'

E109041-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/16/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/16/21	
Toluene	ND	0.0250	1	09/15/21	09/16/21	
o-Xylene	ND	0.0250	1	09/15/21	09/16/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/16/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/16/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/16/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.5 %	70-130	09/15/21	09/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
		96.0 %	50-200	09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	107	20.0	1	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

CONF02-4'

E109041-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/17/21	
Toluene	ND	0.0250	1	09/15/21	09/17/21	
o-Xylene	ND	0.0250	1	09/15/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		09/15/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		09/15/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/15/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/15/21	
<i>Surrogate: n-Nonane</i>						
	99.5 %	50-200		09/15/21	09/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	45.2	40.0	2	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:36:55PM

CONF03-1'

E109041-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Benzene	ND	0.0250	1	09/15/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/15/21	09/17/21	
Toluene	ND	0.0250	1	09/15/21	09/17/21	
o-Xylene	ND	0.0250	1	09/15/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/15/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/15/21	09/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	09/15/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138022
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/21	09/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.0 %	70-130	09/15/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	28.4	25.0	1	09/15/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/16/21	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	09/15/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138029
Chloride	173	20.0	1	09/15/21	09/16/21	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:36:55PM

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 (2138022-BLK1)

Prepared: 09/15/21 Analyzed: 09/16/21

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	7.87		8.00		98.4	70-130			

LCS (2138022-BS1)

Prepared: 09/15/21 Analyzed: 09/16/21

Benzene	4.79	0.0250	5.00		95.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		93.0	70-130			
Toluene	4.83	0.0250	5.00		96.5	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.2	0.0250	15.0		94.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

Matrix Spike (2138022-MS1)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Benzene	4.82	0.0250	5.00	ND	96.4	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133			
Toluene	4.88	0.0250	5.00	ND	97.7	61-130			
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131			
p,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.35		8.00		104	70-130			

Matrix Spike Dup (2138022-MSD1)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Benzene	4.90	0.0250	5.00	ND	98.0	54-133	1.56	20	
Ethylbenzene	4.79	0.0250	5.00	ND	95.8	61-133	1.10	20	
Toluene	4.94	0.0250	5.00	ND	98.8	61-130	1.20	20	
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131	1.32	20	
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	63-131	1.10	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131	1.17	20	
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:36:55PM

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 (2138022-BLK1)

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

LCS (2138022-BS2)

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike (2138022-MS2)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2138022-MSD2)

Source: E109040-01

Prepared: 09/15/21 Analyzed: 09/16/21

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130	2.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:36:55PM

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 (2138026-BLK1)

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.3		50.0		92.5	50-200			

LCS (2138026-BS1)

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	485	25.0	500		97.0	38-132			
Surrogate: n-Nonane	47.7		50.0		95.4	50-200			

Matrix Spike (2138026-MS1)

Source: E109041-03

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	553	25.0	500	28.3	105	38-132			
Surrogate: n-Nonane	48.9		50.0		97.9	50-200			

Matrix Spike Dup (2138026-MSD1)

Source: E109041-03

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	531	25.0	500	28.3	100	38-132	4.20	20	
Surrogate: n-Nonane	49.7		50.0		99.3	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:36:55PM

Anions by EPA 300.0/9056A

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 (2138029-BLK1)

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride ND 20.0

LCS (2138029-BS1)

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 249 20.0 250 99.6 90-110

Matrix Spike (2138029-MS1)

Source: E109041-01

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 466 20.0 250 211 102 80-120

Matrix Spike Dup (2138029-MSD1)

Source: E109041-01

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 460 20.0 250 211 99.5 80-120 1.35 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:	Lava Fee #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/20/21 14:36

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.



Chain of Custody						Page <u>1</u> of <u> </u>									
Client: <u>Devon Energy</u> Project: <u>Lava Fee #001</u> Project Manager: <u>Ashley Giovenso</u> Address: <u>224 Standpipe Rd</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>505-382-1211</u> Email: <u>ashley.giovenso@wescominc.com</u> Report due by: _____				Bill To Attention: <u>Jim Raley</u> Address: <u>5315 Buena Vista Dr.</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>575-689-7597</u> Email: <u>jim.raley@dvn.com</u>				Lab Use Only Lab WO# <u>E109041</u> Job Number <u>01058-0007</u> Analysis and Method <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 </div> <div style="width: 45%;"> BDOC NM BDOC TX </div> </div>				TAT 1D <input type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard <input checked="" type="checkbox"/> EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/> State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/> Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks	
1228	7/10/21	S	1 jar	SS01 - 0"	1							X			
1530	7/10/21	S	1 jar	SS02 - A - 0'	2							X			
1635	7/10/21	S	1 jar	SS03 - A - 0'	3							X			
1540	7/10/21	S	1 jar	SS04 - 0'	4							X			
1542	7/10/21	S	1 jar	SS05 - 0'	5							X			
1547	7/10/21	S	1 jar	SS06 - 0'	6							X			
1549	7/10/21	S	1 jar	SS07 - 0'	7							X			
1350	7/10/21	S	1 jar	CONF01 - 1.5'	8							X			
1430	7/10/21	S	1 jar	CONF02 - 4'	9							X			
1500	7/10/21	S	1 jar	CONF03 - 1'	10							X			
Additional Instructions: <u>Preserved on ice cc shar. harvester @ wescominc.com</u>															
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.															
Relinquished by: (Signature) _____ Date <u>9/13/21</u> Time <u>9:37am</u>						Received by: (Signature) _____ Date <u>9.13.21</u> Time <u>1310</u>						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>(Y)</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>			
Relinquished by: (Signature) _____ Date <u>9.13.21</u> Time <u>1650</u>						Received by: (Signature) _____ Date <u>9/14/21</u> Time <u>11:00</u>									
Relinquished by: (Signature) _____ Date _____ Time _____						Received by: (Signature) _____ Date _____ Time _____									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____															
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



envirotech

Envirotech Analytical Laboratory

Printed: 9/14/2021 2:02:45PM

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:	09/14/21 11:00	Work Order ID:	E109041
Phone:	(505) 382-1211	Date Logged In:	09/14/21 13:57	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	09/20/21 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: Fed Ex**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: Lava Fee #001

Work Order: E109042

Job Number: 01058-0007

Received: 9/14/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/20/21

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: 9/20/21

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Lava Fee #001
Workorder: E109042
Date Received: 9/14/2021 11:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/14/2021 11:00:00AM, under the Project Name: Lava Fee #001.

The analytical test results summarized in this report with the Project Name: Lava Fee #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	Project Name:	Lava Fee #001	Reported: 09/20/21 14:38
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF07-8"	E109042-01A	Soil	09/08/21	09/14/21	Glass Jar, 4 oz.
CONF11-3'	E109042-02A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.
CONF12-3'	E109042-03A	Soil	09/10/21	09/14/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:38:07PM

CONF07-8"

E109042-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138018
Benzene	ND	0.0250	1	09/14/21	09/15/21	
Ethylbenzene	ND	0.0250	1	09/14/21	09/15/21	
Toluene	ND	0.0250	1	09/14/21	09/15/21	
o-Xylene	ND	0.0250	1	09/14/21	09/15/21	
p,m-Xylene	ND	0.0500	1	09/14/21	09/15/21	
Total Xylenes	ND	0.0250	1	09/14/21	09/15/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		09/14/21	09/15/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/14/21	09/15/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		09/14/21	09/15/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/16/21	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		09/15/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138028
Chloride	267	40.0	2	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:38:07PM

CONF11-3'

E109042-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138018
Benzene	ND	0.0250	1	09/14/21	09/15/21	
Ethylbenzene	ND	0.0250	1	09/14/21	09/15/21	
Toluene	ND	0.0250	1	09/14/21	09/15/21	
o-Xylene	ND	0.0250	1	09/14/21	09/15/21	
p,m-Xylene	ND	0.0500	1	09/14/21	09/15/21	
Total Xylenes	ND	0.0250	1	09/14/21	09/15/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	09/14/21	09/15/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/14/21	09/15/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	09/14/21	09/15/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/16/21	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	09/15/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138028
Chloride	417	40.0	2	09/15/21	09/16/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/20/2021 2:38:07PM

CONF12-3'

E109042-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138018
Benzene	ND	0.0250	1	09/14/21	09/15/21	
Ethylbenzene	ND	0.0250	1	09/14/21	09/15/21	
Toluene	ND	0.0250	1	09/14/21	09/15/21	
o-Xylene	ND	0.0250	1	09/14/21	09/15/21	
p,m-Xylene	ND	0.0500	1	09/14/21	09/15/21	
Total Xylenes	ND	0.0250	1	09/14/21	09/15/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	09/14/21	09/15/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2138018
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/14/21	09/15/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	09/14/21	09/15/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/21	09/16/21	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	09/15/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138028
Chloride	436	40.0	2	09/15/21	09/16/21	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:38:07PM

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 (2138018-BLK1)

Prepared: 09/14/21 Analyzed: 09/14/21

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	7.42		8.00		92.7	70-130			

LCS (2138018-BS1)

Prepared: 09/14/21 Analyzed: 09/14/21

Benzene	4.73	0.0250	5.00		94.7	70-130			
Ethylbenzene	4.65	0.0250	5.00		93.0	70-130			
Toluene	4.79	0.0250	5.00		95.9	70-130			
o-Xylene	4.73	0.0250	5.00		94.7	70-130			
p,m-Xylene	9.47	0.0500	10.0		94.7	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.38		8.00		105	70-130			

Matrix Spike (2138018-MS1)

Source: E109039-01

Prepared: 09/14/21 Analyzed: 09/14/21

Benzene	4.95	0.0250	5.00	ND	98.9	54-133			
Ethylbenzene	4.81	0.0250	5.00	ND	96.2	61-133			
Toluene	4.98	0.0250	5.00	ND	99.7	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.3	63-131			
p,m-Xylene	9.77	0.0500	10.0	ND	97.7	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

Matrix Spike Dup (2138018-MSD1)

Source: E109039-01

Prepared: 09/14/21 Analyzed: 09/14/21

Benzene	5.02	0.0250	5.00	ND	100	54-133	1.53	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133	0.706	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	0.993	20	
o-Xylene	4.96	0.0250	5.00	ND	99.2	63-131	0.831	20	
p,m-Xylene	9.83	0.0500	10.0	ND	98.3	63-131	0.600	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.6	63-131	0.677	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:38:07PM

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 (2138018-BLK1)

Prepared: 09/14/21 Analyzed: 09/14/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		8.00		106	70-130			

LCS (2138018-BS2)

Prepared: 09/14/21 Analyzed: 09/14/21

Gasoline Range Organics (C6-C10)	59.5	20.0	50.0		119	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.50		8.00		106	70-130			

Matrix Spike (2138018-MS2)

Source: E109039-01

Prepared: 09/14/21 Analyzed: 09/14/21

Gasoline Range Organics (C6-C10)	59.6	20.0	50.0	ND	119	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.36		8.00		104	70-130			

Matrix Spike Dup (2138018-MSD2)

Source: E109039-01

Prepared: 09/14/21 Analyzed: 09/14/21

Gasoline Range Organics (C6-C10)	57.8	20.0	50.0	ND	116	70-130	3.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.22		8.00		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:38:07PM

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 (2138026-BLK1)

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.3		50.0		92.5	50-200			

LCS (2138026-BS1)

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	485	25.0	500		97.0	38-132			
Surrogate: n-Nonane	47.7		50.0		95.4	50-200			

Matrix Spike (2138026-MS1)

Source: E109041-03

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	553	25.0	500	28.3	105	38-132			
Surrogate: n-Nonane	48.9		50.0		97.9	50-200			

Matrix Spike Dup (2138026-MSD1)

Source: E109041-03

Prepared: 09/15/21 Analyzed: 09/15/21

Diesel Range Organics (C10-C28)	531	25.0	500	28.3	100	38-132	4.20	20	
Surrogate: n-Nonane	49.7		50.0		99.3	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/20/2021 2:38:07PM

Anions by EPA 300.0/9056A

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 (2138028-BLK1)

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride ND 20.0

LCS (2138028-BS1)

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 246 20.0 250 98.5 90-110

Matrix Spike (2138028-MS1)

Source: E109031-01

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 291 20.0 250 42.8 99.3 80-120

Matrix Spike Dup (2138028-MSD1)

Source: E109031-01

Prepared: 09/15/21 Analyzed: 09/15/21

Chloride 301 20.0 250 42.8 103 80-120 3.41 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:	Lava Fee #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/20/21 14:38

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.



[illegible]

envirotech

Envirotech Analytical Laboratory

Printed: 9/14/2021 2:14:41PM

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:	09/14/21 11:00	Work Order ID:	E109042
Phone:	(505) 382-1211	Date Logged In:	09/14/21 14:07	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	09/20/21 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: Fed Ex**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.

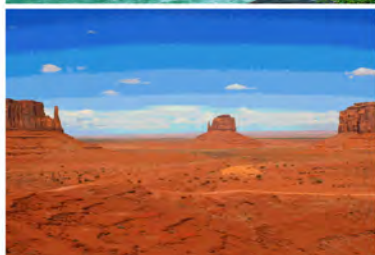
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Lava Fee #001

Work Order: E109052

Job Number: 01058-0007

Received: 9/16/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/22/21

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: 9/22/21

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Lava Fee #001
Workorder: E109052
Date Received: 9/16/2021 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/16/2021 10:00:00AM, under the Project Name: Lava Fee #001.

The analytical test results summarized in this report with the Project Name: Lava Fee #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.

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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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Field Offices:

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Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Lava Fee #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 09/22/21 10:44
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF14 - 4.5'	E109052-01A	Soil	09/14/21	09/16/21	Glass Jar, 4 oz.
CONF13 - 4.5'	E109052-02A	Soil	09/14/21	09/16/21	Glass Jar, 4 oz.
CONF10 - 4.5'	E109052-03A	Soil	09/14/21	09/16/21	Glass Jar, 4 oz.
CONF09 - 4.5'	E109052-04A	Soil	09/14/21	09/16/21	Glass Jar, 4 oz.
CONF08 - 4.5'	E109052-05A	Soil	09/14/21	09/16/21	Glass Jar, 4 oz.
CONF15 - Wall	E109052-06A	Soil	09/14/21	09/16/21	Glass Jar, 4 oz.
CONF16 - Wall	E109052-07A	Soil	09/14/21	09/16/21	Glass Jar, 4 oz.
CONF17 - Wall	E109052-08A	Soil	09/14/21	09/16/21	Glass Jar, 4 oz.
CONF18 - Wall	E109052-09A	Soil	09/14/21	09/16/21	Glass Jar, 4 oz.



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/22/2021 10:44:04AM

CONF14 - 4.5'

E109052-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Benzene	ND	0.0250	1	09/16/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/16/21	09/17/21	
Toluene	ND	0.0250	1	09/16/21	09/17/21	
o-Xylene	ND	0.0250	1	09/16/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/16/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	99.5 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	106 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	99.5 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	106 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/16/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/16/21	09/16/21	
Surrogate: n-Nonane	182 %	50-200		09/16/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2139011
Chloride	688	20.0	1	09/20/21	09/20/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/22/2021 10:44:04AM

CONF13 - 4.5'

E109052-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Benzene	ND	0.0250	1	09/16/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/16/21	09/17/21	
Toluene	ND	0.0250	1	09/16/21	09/17/21	
o-Xylene	ND	0.0250	1	09/16/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/16/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	105 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	105 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/16/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/16/21	09/16/21	
Surrogate: n-Nonane	112 %	50-200		09/16/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2139011
Chloride	815	40.0	2	09/20/21	09/20/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/22/2021 10:44:04AM

CONF10 - 4.5'

E109052-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2138037	
Benzene	ND	0.0250	1	09/16/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/16/21	09/17/21	
Toluene	ND	0.0250	1	09/16/21	09/17/21	
o-Xylene	ND	0.0250	1	09/16/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/16/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene		100 %	70-130	09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	09/16/21	09/17/21	
Surrogate: Toluene-d8		109 %	70-130	09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2138037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene		100 %	70-130	09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	09/16/21	09/17/21	
Surrogate: Toluene-d8		109 %	70-130	09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2138035	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/16/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/16/21	09/16/21	
Surrogate: n-Nonane		107 %	50-200	09/16/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2139011	
Chloride	675	40.0	2	09/20/21	09/20/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/22/2021 10:44:04AM

CONF09 - 4.5'

E109052-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2138037	
Benzene	ND	0.0250	1	09/16/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/16/21	09/17/21	
Toluene	ND	0.0250	1	09/16/21	09/17/21	
o-Xylene	ND	0.0250	1	09/16/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/16/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	99.9 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	106 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2138037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	99.9 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	106 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2138035	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/16/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/16/21	09/16/21	
Surrogate: n-Nonane	130 %	50-200		09/16/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2139011	
Chloride	237	20.0	1	09/20/21	09/20/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/22/2021 10:44:04AM

CONF08 - 4.5'

E109052-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Benzene	ND	0.0250	1	09/16/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/16/21	09/17/21	
Toluene	ND	0.0250	1	09/16/21	09/17/21	
o-Xylene	ND	0.0250	1	09/16/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/16/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	99.7 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	104 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	99.7 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	104 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/16/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/16/21	09/16/21	
Surrogate: n-Nonane	197 %	50-200		09/16/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2139011
Chloride	638	40.0	2	09/20/21	09/20/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/22/2021 10:44:04AM

CONF15 - Wall

E109052-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Benzene	ND	0.0250	1	09/16/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/16/21	09/17/21	
Toluene	ND	0.0250	1	09/16/21	09/17/21	
o-Xylene	ND	0.0250	1	09/16/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/16/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	98.9 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	107 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	98.9 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	107 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/16/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/16/21	09/16/21	
Surrogate: n-Nonane	114 %	50-200		09/16/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2139011
Chloride	642	40.0	2	09/20/21	09/20/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/22/2021 10:44:04AM

CONF16 - Wall

E109052-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Benzene	ND	0.0250	1	09/16/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/16/21	09/17/21	
Toluene	ND	0.0250	1	09/16/21	09/17/21	
o-Xylene	ND	0.0250	1	09/16/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/16/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene		100 %	70-130	09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	09/16/21	09/17/21	
Surrogate: Toluene-d8		107 %	70-130	09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene		100 %	70-130	09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	09/16/21	09/17/21	
Surrogate: Toluene-d8		107 %	70-130	09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/16/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/16/21	09/16/21	
Surrogate: n-Nonane		111 %	50-200	09/16/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2139011
Chloride	227	100	5	09/20/21	09/20/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/22/2021 10:44:04AM

CONF17 - Wall

E109052-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Benzene	ND	0.0250	1	09/16/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/16/21	09/17/21	
Toluene	ND	0.0250	1	09/16/21	09/17/21	
o-Xylene	ND	0.0250	1	09/16/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/16/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	99.6 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	106 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2138037
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene	99.6 %	70-130		09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		09/16/21	09/17/21	
Surrogate: Toluene-d8	106 %	70-130		09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2138035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/16/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/16/21	09/16/21	
Surrogate: n-Nonane	112 %	50-200		09/16/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2139011
Chloride	802	40.0	2	09/20/21	09/20/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/22/2021 10:44:04AM

CONF18 - Wall

E109052-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2138037	
Benzene	ND	0.0250	1	09/16/21	09/17/21	
Ethylbenzene	ND	0.0250	1	09/16/21	09/17/21	
Toluene	0.0260	0.0250	1	09/16/21	09/17/21	
o-Xylene	ND	0.0250	1	09/16/21	09/17/21	
p,m-Xylene	ND	0.0500	1	09/16/21	09/17/21	
Total Xylenes	ND	0.0250	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene		100 %	70-130	09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	09/16/21	09/17/21	
Surrogate: Toluene-d8		108 %	70-130	09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2138037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/21	09/17/21	
Surrogate: Bromofluorobenzene		100 %	70-130	09/16/21	09/17/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	09/16/21	09/17/21	
Surrogate: Toluene-d8		108 %	70-130	09/16/21	09/17/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2138035	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/16/21	09/16/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/16/21	09/16/21	
Surrogate: n-Nonane		117 %	50-200	09/16/21	09/16/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2139011	
Chloride	766	40.0	2	09/20/21	09/20/21	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/22/2021 10:44:04AM

Volatile Organic Compounds by EPA 8260B

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 (2138037-BLK1)

Prepared: 09/16/21 Analyzed: 09/17/21

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	0.482		0.500		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

LCS (2138037-BS1)

Prepared: 09/16/21 Analyzed: 09/17/21

Benzene	2.63	0.0250	2.50		105	70-130			
Ethylbenzene	2.87	0.0250	2.50		115	70-130			
Toluene	2.82	0.0250	2.50		113	70-130			
o-Xylene	2.77	0.0250	2.50		111	70-130			
p,m-Xylene	5.70	0.0500	5.00		114	70-130			
Total Xylenes	8.46	0.0250	7.50		113	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.533		0.500		107	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

Matrix Spike (2138037-MS1)

Source: E109051-01

Prepared: 09/16/21 Analyzed: 09/17/21

Benzene	2.76	0.0250	2.50	ND	110	48-131			
Ethylbenzene	3.00	0.0250	2.50	ND	120	45-135			
Toluene	2.97	0.0250	2.50	ND	119	48-130			
o-Xylene	2.85	0.0250	2.50	ND	114	43-135			
p,m-Xylene	5.93	0.0500	5.00	ND	119	43-135			
Total Xylenes	8.78	0.0250	7.50	ND	117	43-135			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.538		0.500		108	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2138037-MSD1)

Source: E109051-01

Prepared: 09/16/21 Analyzed: 09/17/21

Benzene	2.77	0.0250	2.50	ND	111	48-131	0.127	23	
Ethylbenzene	3.01	0.0250	2.50	ND	120	45-135	0.366	27	
Toluene	2.93	0.0250	2.50	ND	117	48-130	1.61	24	
o-Xylene	2.87	0.0250	2.50	ND	115	43-135	0.525	27	
p,m-Xylene	5.93	0.0500	5.00	ND	119	43-135	0.0169	27	
Total Xylenes	8.79	0.0250	7.50	ND	117	43-135	0.182	27	
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/22/2021 10:44:04AM

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 (2138037-BLK1)

Prepared: 09/16/21 Analyzed: 09/17/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.482		0.500		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

LCS (2138037-BS2)

Prepared: 09/16/21 Analyzed: 09/17/21

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			

Matrix Spike (2138037-MS2)

Source: E109051-01

Prepared: 09/16/21 Analyzed: 09/17/21

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike Dup (2138037-MSD2)

Source: E109051-01

Prepared: 09/16/21 Analyzed: 09/17/21

Gasoline Range Organics (C6-C10)	57.1	20.0	50.0	ND	114	70-130	10.4	20	
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/22/2021 10:44:04AM

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 (2138035-BLK1)

Prepared: 09/16/21 Analyzed: 09/16/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.7		50.0		101	50-200			

LCS (2138035-BS1)

Prepared: 09/16/21 Analyzed: 09/16/21

Diesel Range Organics (C10-C28)	512	25.0	500		102	38-132			
Surrogate: <i>n</i> -Nonane	52.8		50.0		106	50-200			

Matrix Spike (2138035-MS1)

Source: E109047-04

Prepared: 09/16/21 Analyzed: 09/16/21

Diesel Range Organics (C10-C28)	535	25.0	500	ND	107	38-132			
Surrogate: <i>n</i> -Nonane	53.8		50.0		108	50-200			

Matrix Spike Dup (2138035-MSD1)

Source: E109047-04

Prepared: 09/16/21 Analyzed: 09/16/21

Diesel Range Organics (C10-C28)	393	25.0	500	ND	78.5	38-132	30.6	20	R2
Surrogate: <i>n</i> -Nonane	55.8		50.0		112	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/22/2021 10:44:04AM

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 (2139011-BLK1)

Prepared: 09/20/21 Analyzed: 09/20/21

Chloride	ND	20.0
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LCS (2139011-BS1)

Prepared: 09/20/21 Analyzed: 09/20/21

Chloride	239	20.0	250	95.6	90-110
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Matrix Spike (2139011-MS1)

Source: E109052-01

Prepared: 09/20/21 Analyzed: 09/20/21

Chloride	943	20.0	250	688	102	80-120
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Matrix Spike Dup (2139011-MSD1)

Source: E109052-01

Prepared: 09/20/21 Analyzed: 09/20/21

Chloride	942	20.0	250	688	102	80-120	0.0297	20
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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:	Lava Fee #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/22/21 10:44

R2 The RPD exceeded the acceptance limit.

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.



Client: Devon
 Project: Lava Fee #001
 Project Manager: Ashley Giovengo
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad, NM 88220
 Phone: 505-382-1211
 Email: ashley.giovengo@gmail.com
 Report due by:

Bill To
 Attention: Jim Raley
 Address: 5315 Buena Vista Dr.
 City, State, Zip: Carlsbad, NM 88220
 Phone: 575-689-7597
 Email: jim.raley@dnv.com

Lab Use Only
 Lab WO# E109052 Job Number 01058-0007
 Analysis and Method
 TAT
 1D 2D 3D Standard
 EPA Program
 CWA SDWA
 RCRA

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	State	Remarks
12:35	7/14/21	S	1 jar	CONF14 - 4.5'	1							X		NM	
1:30	7/14/21	S	1 jar	CONF13 - 4.5'	2							X		CO	
2:45	7/14/21	S	1 jar	CONF10 - 4.5'	3							X		UT	
12:25	7/14/21	S	1 jar	CONF09 - 4.5'	4							X		AZ	
12:30	7/14/21	S	1 jar	CONF08 - 4.5'	5							X		TX	
9:40	7/14/21	S	1 jar	CONF15 - wall	6							X			
11:30	7/14/21	S	1 jar	CONF16 - wall	7							X			
11:35	7/14/21	S	1 jar	CONF17 - wall	8							X			
12:20	7/14/21	S	1 jar	CONF18 - wall	9							X			
	7/14/21														

Additional Instructions: Preserved on ice Please cc shar. harvester@wescominc.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.

Relinquished by: (Signature) Ashley Giovengo Date 7/15/21 Time 4:58am
 Relinquished by: (Signature) [Signature] Date 7:15-21 Time 1400
 Relinquished by: (Signature) [Signature] Date 7/15/21 Time 10:00
 Received by: (Signature) [Signature] Date 7-15-21 Time 1140
 Received by: (Signature) [Signature] Date 7/16/21 Time 10:00
 Received on ice: Y / N
 T1 4 T2 4 T3 4
 AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



envirotech

Envirotech Analytical Laboratory

Printed: 9/16/2021 11:01:38AM

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:	09/16/21 10:00	Work Order ID:	E109052
Phone:	(505) 382-1211	Date Logged In:	09/16/21 10:54	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	09/22/21 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: Fed Ex**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

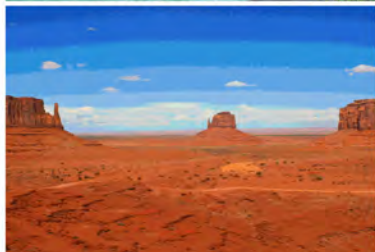
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Lava Fee #001

Work Order: E110099

Job Number: 01058-0007

Received: 10/20/2021

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
10/20/21

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: 10/20/21

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Lava Fee #001
Workorder: E110099
Date Received: 10/20/2021 11:43:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/20/2021 11:43:00AM, under the Project Name: Lava Fee #001.

The analytical test results summarized in this report with the Project Name: Lava Fee #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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Sample Summary

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported: 10/20/21 18:00
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01A-0'	E110099-01A	Soil	10/18/21	10/20/21	Glass Jar, 4 oz.
CONF02A-0'	E110099-02A	Soil	10/18/21	10/20/21	Glass Jar, 4 oz.
CONF03A-0'	E110099-03A	Soil	10/18/21	10/20/21	Glass Jar, 4 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Lava Fee #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/20/2021 6:00:29PM
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CONF01A-0'

E110099-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2143022
Benzene	ND	0.0500	2	10/20/21	10/20/21	
Ethylbenzene	0.0670	0.0500	2	10/20/21	10/20/21	
Toluene	0.0970	0.0500	2	10/20/21	10/20/21	
o-Xylene	0.463	0.0500	2	10/20/21	10/20/21	
p,m-Xylene	0.208	0.100	2	10/20/21	10/20/21	
Total Xylenes	0.671	0.0500	2	10/20/21	10/20/21	
Surrogate: Bromofluorobenzene	123 %	70-130		10/20/21	10/20/21	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		10/20/21	10/20/21	
Surrogate: Toluene-d8	111 %	70-130		10/20/21	10/20/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2143022
Gasoline Range Organics (C6-C10)	198	40.0	2	10/20/21	10/20/21	
Surrogate: Bromofluorobenzene	123 %	70-130		10/20/21	10/20/21	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		10/20/21	10/20/21	
Surrogate: Toluene-d8	111 %	70-130		10/20/21	10/20/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2143032
Diesel Range Organics (C10-C28)	5820	250	10	10/20/21	10/20/21	
Oil Range Organics (C28-C36)	2000	500	10	10/20/21	10/20/21	
Surrogate: n-Nonane	170 %	50-200		10/20/21	10/20/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2143028
Chloride	190	20.0	1	10/20/21	10/20/21	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Lava Fee #001 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/20/2021 6:00:29PM
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CONF02A-0'

E110099-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2143022
Benzene	ND	0.0500	2	10/20/21	10/20/21	
Ethylbenzene	0.404	0.0500	2	10/20/21	10/20/21	
Toluene	0.408	0.0500	2	10/20/21	10/20/21	
o-Xylene	2.79	0.0500	2	10/20/21	10/20/21	
p,m-Xylene	3.88	0.100	2	10/20/21	10/20/21	
Total Xylenes	6.67	0.0500	2	10/20/21	10/20/21	
Surrogate: Bromofluorobenzene	135 %	70-130		10/20/21	10/20/21	S3
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		10/20/21	10/20/21	
Surrogate: Toluene-d8	106 %	70-130		10/20/21	10/20/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2143022
Gasoline Range Organics (C6-C10)	266	40.0	2	10/20/21	10/20/21	
Surrogate: Bromofluorobenzene	135 %	70-130		10/20/21	10/20/21	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		10/20/21	10/20/21	
Surrogate: Toluene-d8	106 %	70-130		10/20/21	10/20/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2143032
Diesel Range Organics (C10-C28)	8570	500	20	10/20/21	10/20/21	
Oil Range Organics (C28-C36)	2880	1000	20	10/20/21	10/20/21	
Surrogate: n-Nonane	200 %	50-200		10/20/21	10/20/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2143028
Chloride	423	20.0	1	10/20/21	10/20/21	



Sample Data

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

Project Name: Lava Fee #001
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/20/2021 6:00:29PM

CONF03A-0'

E110099-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2143022
Benzene	ND	0.0500	2	10/20/21	10/20/21	
Ethylbenzene	ND	0.0500	2	10/20/21	10/20/21	
Toluene	ND	0.0500	2	10/20/21	10/20/21	
o-Xylene	ND	0.0500	2	10/20/21	10/20/21	
p,m-Xylene	ND	0.100	2	10/20/21	10/20/21	
Total Xylenes	ND	0.0500	2	10/20/21	10/20/21	
Surrogate: Bromofluorobenzene		100 %	70-130	10/20/21	10/20/21	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	10/20/21	10/20/21	
Surrogate: Toluene-d8		93.5 %	70-130	10/20/21	10/20/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2143022
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/20/21	10/20/21	
Surrogate: Bromofluorobenzene		100 %	70-130	10/20/21	10/20/21	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	10/20/21	10/20/21	
Surrogate: Toluene-d8		93.5 %	70-130	10/20/21	10/20/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2143032
Diesel Range Organics (C10-C28)	182	25.0	1	10/20/21	10/20/21	
Oil Range Organics (C28-C36)	212	50.0	1	10/20/21	10/20/21	
Surrogate: n-Nonane		126 %	50-200	10/20/21	10/20/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2143028
Chloride	46.0	20.0	1	10/20/21	10/20/21	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/20/2021 6:00:29PM

Volatile Organic Compounds by EPA 8260B

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 (2143022-BLK1)

Prepared: 10/19/21 Analyzed: 10/19/21

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	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS (2143022-BS1)

Prepared: 10/19/21 Analyzed: 10/19/21

Benzene	2.80	0.0250	2.50		112	70-130			
Ethylbenzene	2.80	0.0250	2.50		112	70-130			
Toluene	2.90	0.0250	2.50		116	70-130			
o-Xylene	2.73	0.0250	2.50		109	70-130			
p,m-Xylene	5.84	0.0500	5.00		117	70-130			
Total Xylenes	8.57	0.0250	7.50		114	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.533		0.500		107	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

LCS Dup (2143022-BSD1)

Prepared: 10/19/21 Analyzed: 10/19/21

Benzene	2.77	0.0250	2.50		111	70-130	0.934	23	
Ethylbenzene	2.79	0.0250	2.50		112	70-130	0.376	27	
Toluene	2.86	0.0250	2.50		114	70-130	1.51	24	
o-Xylene	2.76	0.0250	2.50		110	70-130	0.983	27	
p,m-Xylene	5.85	0.0500	5.00		117	70-130	0.163	27	
Total Xylenes	8.60	0.0250	7.50		115	70-130	0.425	27	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Lava Fee #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/20/2021 6:00:29PM

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 (2143022-BLK1)

Prepared: 10/19/21 Analyzed: 10/19/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS (2143022-BS2)

Prepared: 10/19/21 Analyzed: 10/19/21

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.3	70-130			

LCS Dup (2143022-BSD2)

Prepared: 10/19/21 Analyzed: 10/19/21

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0		99.3	70-130	0.232	20	
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			

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:	Lava Fee #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/20/21 18:00

S3 Surrogate spike recovery was outside acceptance limits. 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.



Additional Instructions:

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	AVG Temp °C 7
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.	



envirotech

Envirotech Analytical Laboratory

Printed: 10/20/2021 12:06:06PM

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:	10/20/21 11:43	Work Order ID:	E110099
Phone:	(505) 382-1211	Date Logged In:	10/20/21 12:01	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	10/20/21 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: Fed Ex**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.

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 58299

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 58299
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Devon's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	12/15/2021