

Mizar 11 FED COM 1H

OCD incident nAPP2327624998

10/2/2023

<b><u>Spill Volume(Bbls) Calculator</u></b>	
<i>Inputs in blue, Outputs in red</i>	
<i>Contaminated Soil measurement</i>	
Area (square feet)	Depth(inches)
<u>3875</u>	<u>0.185</u>
Cubic Feet of Soil Impacted	<u>59.740</u>
Barrels of Soil Impacted	<u>10.65</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>1.60</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	<u>1.60</u>
<i>Free Standing Fluid Only</i>	
Area (square feet)	Depth(inches)
<u>1500</u>	<u>0.250</u>
Standing fluid	<u>5.570</u>
<b><u>Total fluids spilled</u></b>	<b><u>7.168</u></b>



March 31, 2024

**New Mexico Energy Minerals and Natural Resources Department**

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

**Re: Deferral Request  
Mizar 11 Fed Com 1H  
Incident Number nAPP2327624998  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company (Devon), has prepared this *Deferral Request* to document assessment, delineation, excavation, and soil sampling activities at the Mizar 11 Fed Com 1H (Site) in Unit D, Section 11, Township 19 South, Range 31 East, in Lea County, New Mexico (Figure 1). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacted soil resulting from a release of crude oil on pad at the Site. Based on field observations and soil sample laboratory analytical results, Devon is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2327624998 until the Site is reconstructed and/or the well pad is abandoned.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Lea County, New Mexico (32.68153 °, -103.8485107 °) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On October 2, 2023, a pinhole was found in the tubing by the well head which sent approximately 7.2 barrels (bbls) of crude oil onto the pad surface. A total of 5 bbls of crude oil were recovered from the Site upon discovery of the release. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on October 4, 2023. The release was assigned Incident Number nAPP2327624998.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization for the release, see Appendix A. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-01989 POD 1, with a depth to water greater than 105 feet below ground surface (bgs). The well was a soil boring drilled to assess depth to groundwater beneath the Site

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and was advanced approximately 150 feet southwest of the spill area and measured on March 4, 2024. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation to suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well log and record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a wetland, located approximately 0.47 miles south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low karst potential designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

## SITE ASSESSMENT ACTIVITIES

On October 19, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven preliminary assessment soil samples (SS01 through SS07) were collected from the ground surface to assess the lateral extent of the release. The preliminary soil samples were field screened for TPH using a PetroFLAG<sup>®</sup> soil analyzer system and chloride using Mohr's titration method. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected during the Site visit and a photographic log is included as Appendix C.

All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

## DELINEATION SOIL SAMPLING ACTIVITIES

Between November 8 and December 18, 2023, Ensolum personnel were on Site to collect vertical delineation samples. Three potholes (PH01, PH02, and PH03) were advanced via backhoe within the on-pad release extent to assess for the presence or absence of impacts to soil. Delineation soil samples were collected from each pothole at depths ranging from ground surface to 5 feet bgs. Soil from the potholes was field screened for TPH and chloride in the same manner previously described above. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix D. The delineation soil sample locations are depicted on Figure 2.

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## EXCAVATION AND SOIL SAMPLING ACTIVITIES

Between January 16 and January 18, 2024, excavation of impacted soil was completed using a backhoe, hydro vacuum truck, hand crew, and transport vehicles. Excavation of waste containing soil directly adjacent to and underlying the pump jack and well head cellar was not possible due to the presence of active production equipment and associated flow lines. Excavation and surface scrape activities were completed to depths ranging from 0.5 feet to 1-foot bgs. Photographic documentation of excavation and potholing activities are included in Appendix C.

Following removal of impacted and waste-containing soil, 5-point composite soil samples were collected at a frequency of one sample every 200 square foot area from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples from the excavation areas included: floor soil samples (FS01 through FS26) were collected at depths ranging from 0.5 feet to 1-foot bgs and sidewall soil samples (SW01 and SW02) at depths ranging from the ground surface to 1-foot bgs.

The final excavation area measured approximately 4,763 square feet. A total of approximately 216 cubic yards of impacted soil was removed during excavation activities. Waste containing soil was transported and properly disposed of at the R360 Hobbs Facility in New Mexico. The excavation extent and all excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

One pothole (PH04) was advanced via backhoe to a depth of 7 feet bgs to establish the vertical extent within the area of requested deferral (FS26 and SW02). Vertical delineation soil samples were collected from the pothole at depths ranging from 1-foot to 7 feet bgs. On February 2, 2024, Ensolum personnel returned to the Site to advance pothole sample PH04 to fully verify the vertical extent of the release. The pothole was advanced via backhoe and reached a total depth of 11 feet bgs and vertical delineation soil samples were collected from the pothole at depths ranging from 8 feet to 11 feet bgs. To direct excavation activities, soil was screened for TPH and chloride utilizing PetroFLAG® and Hach® chloride QuanTab® test strips, respectively.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil assessment samples (SS01 through SS07) collected at ground surface were all in compliance with the Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results for delineation soil samples collected from pothole PH01 indicated TPH concentrations exceeded the Site Closure Criteria at ground surface; however, samples analyzed at 1-foot bgs through 5 feet bgs were all in compliance with the Site Closure Criteria and with the strictest criteria at 5 feet bgs. Discrete soil samples collected from potholes PH02 and PH03 were all in compliance with the Site Closure Criteria and with the strictest Closure Criteria at 5 feet and 3 feet bgs, respectively. Discrete soil samples from pothole PH04 were all in compliance with the Site Closure Criteria and in compliance with the Strictest Closure Criteria per NMOCD Table I at 11 feet bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

Laboratory analytical results for excavation floor samples (FS01 through FS25) and sidewall soil sample SW01 indicated the soil samples were compliant with the Site Closure Criteria. Excavation Floor soil sample FS26, collected from the well head cellar, and sidewall soil sample SW02, collected from the wall against the pump jack, demarcate the area of requested deferral (see Figure 4). Excavation floor sample FS26 and sidewall sample SW02 exceeded the Site Closure Criteria, but they are located against production equipment and are within the area of requested deferral. Excavation of waste



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containing soil from the requested deferral area is not possible due to the presence of the pump jack, well head, and underlying production piping, which would require large-scale facility deconstruction to safely remove the impacted soils.

## DEFERRAL REQUEST

Environmental assessment and excavation activities were conducted at the Site to address the October 2023 release of crude oil. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated COC concentrations within the excavated area and outside of the requested deferral area (see Figure 4), were all compliant with the Site Closure Criteria. Those samples that were not compliant with the Site Closure Criteria (floor confirmation sample FS26 and sidewall soil sample SW02) failed due to their proximity to the area of requested deferral. Based on soil sample analytical results, no further remediation of the area on pad is required. Devon will backfill the excavation with material purchased locally and recontour the Site to match existing Site conditions.

Devon has remediated impacts at the Site to the maximum extent practicable (MEP) based on Site safety conditions relating to active production equipment and associated production pipelines. Devon is requesting deferral of final remediation of residual impacts due to the presence of active production equipment and process piping preventing full excavation of impacted soil. The impacted soil is limited to the area beneath active production equipment and piping, where remediation would require major facility deconstruction. Devon was able to excavate approximately 216 cubic yards of impacted soil from the on-pad spill area. The impacted soil remaining in place is laterally defined by excavation floor sample FS26 and sidewall soil sample SW02 and is vertically defined by pothole sample PH04 at 11 feet bgs at the southern edge of the deferral area. The estimated area of remaining impacted soil measures an area of approximately 700 square feet, and a total of approximately 285 cubic yards of impacted soil remains in place, assuming a depth of 11 feet bgs based on laboratory analytical results from delineation soil samples.

Devon does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Any gross impacts were removed during the initial cleanup.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Devon requests deferral of final remediation for Incident Number nAPP2327624998 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,  
**Ensolum, LLC**



Ashley Giovengo  
Senior Scientist



Daniel R. Moir, PG  
Senior Managing Geologist

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Appendices:

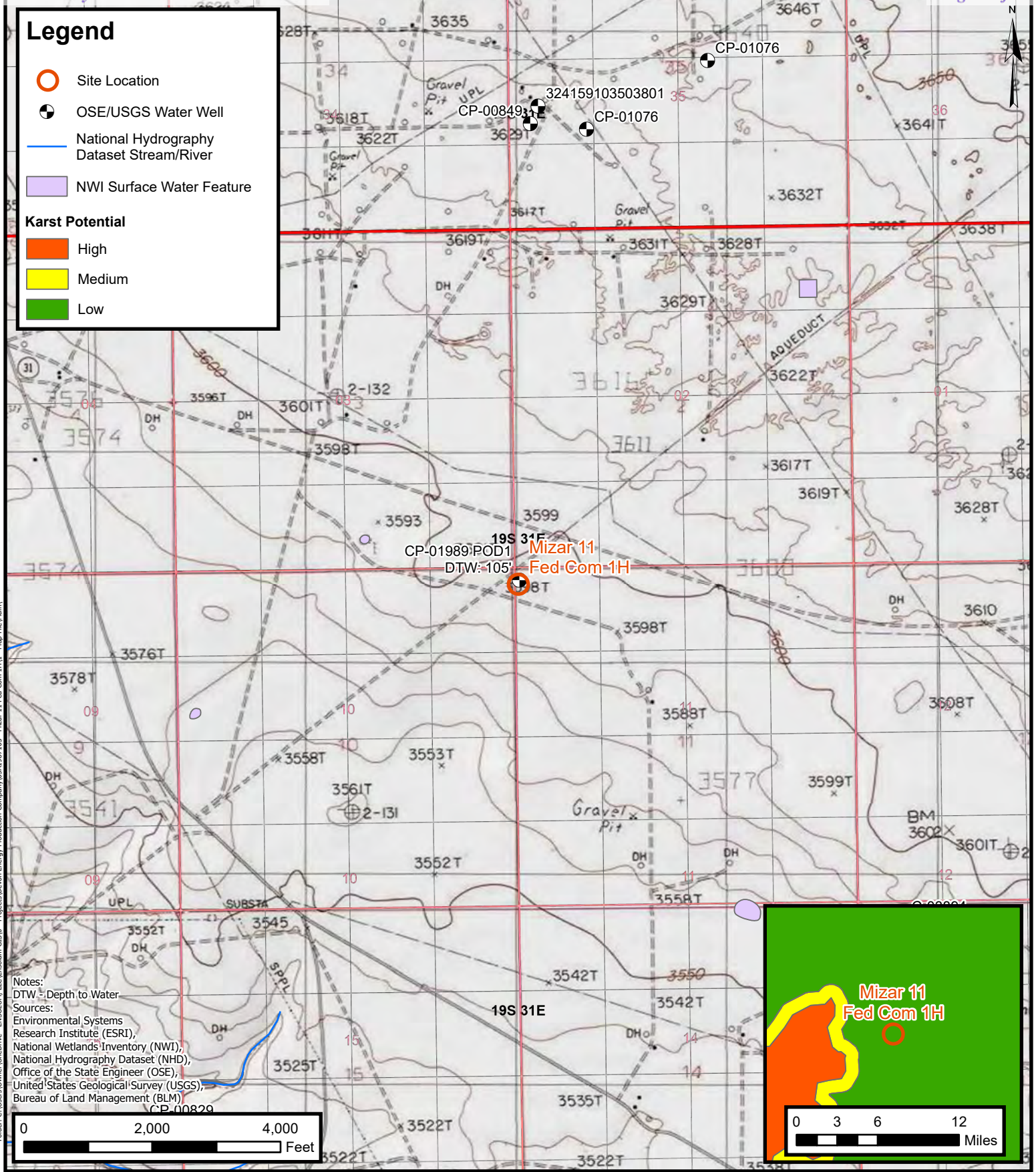
Figure 1 Site Receptor Map  
Figure 2 Delineation Soil Sample Locations  
Figure 3 Excavation Soil Sample Locations  
Figure 4 Area of Requested Deferral

Table 1 Delineation Soil Samples  
Table 2 Confirmation Soil Samples

Appendix A Form C-141  
Appendix B Referenced Wells  
Appendix C Photographic Log  
Appendix D Lithologic Soil Sampling Logs  
Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation  
Appendix F Email Correspondence



FIGURES



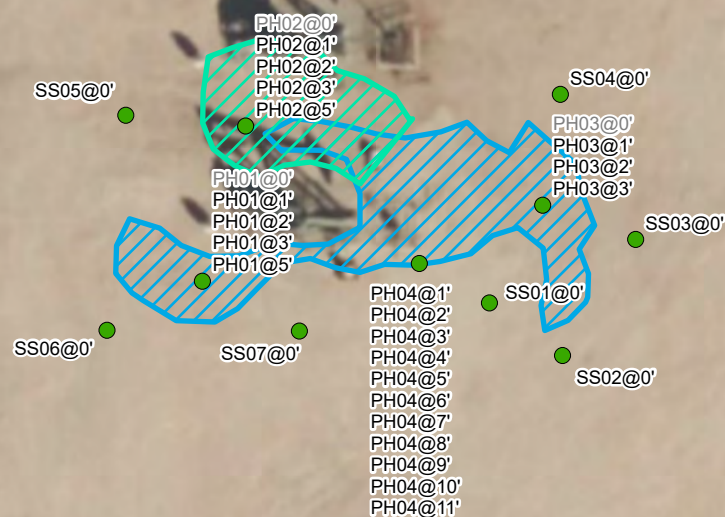
**Site Receptor Map**  
Devon Energy Production Company  
Mizar 11 Fed Com 1H  
Incident Number: nAPP2327624998  
Unit D, Section 11, Township 19S, Range 31E  
Lea County, New Mexico

**FIGURE**  
**1**

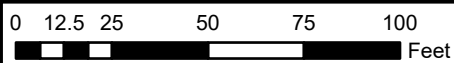


**Legend**

- Delineation Soil Sample in Compliance with Closure Criteria
- ▨ Mist Zone
- ▨ Release Extent

**Notes:**

Sample ID @ Depth Below Ground Surface.  
Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

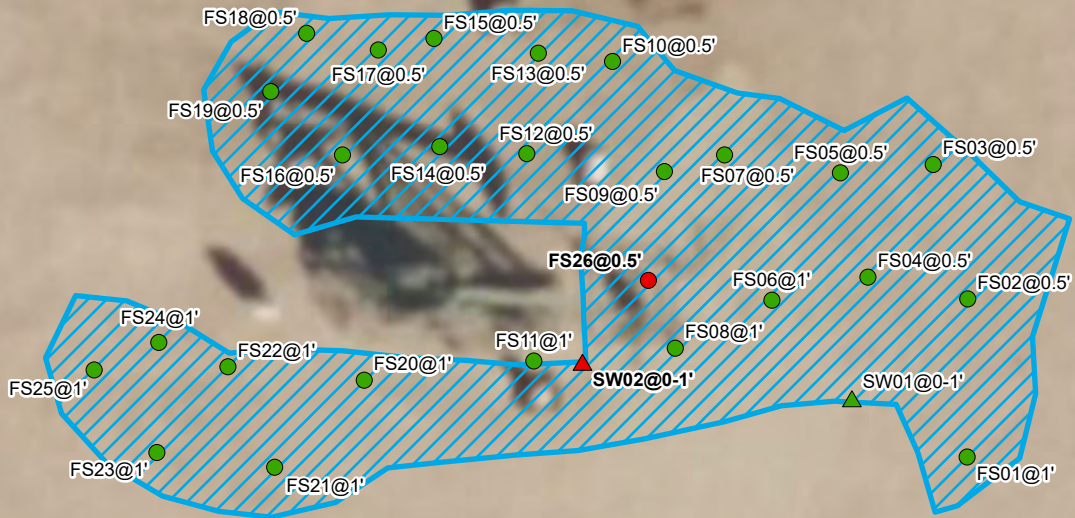
**Delineation Soil Sample Locations**

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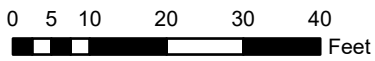
**FIGURE****2**

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Floor Sample with Concentrations Exceeding Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample with Concentrations Exceeding Closure Criteria
- Excavation Extent



Notes:  
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



## Excavation Soil Sample Locations

Devon Energy Production Company  
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Unit D, Section 11, Township 19S, Range 31E  
Lea County, New Mexico

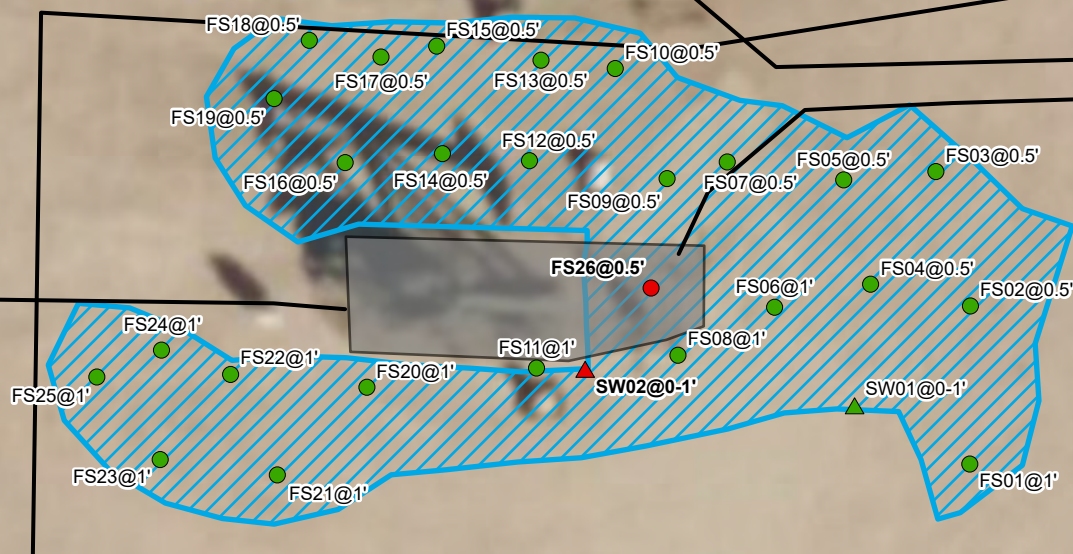
FIGURE

3



**Legend**

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Floor Sample with Concentrations Exceeding Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample with Concentrations Exceeding Closure Criteria
- Pipeline/Line/Utility
- Area of Requested Deferral
- ▨ Excavation Extent



Notes:  
Sample ID @ Depth Below Ground Surface.

0 25 50  
Feet

Sources: Environmental Systems Research Institute (ESRI)



## Area of Requested Deferral

Devon Energy Production Company  
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Unit D, Section 11, Township 19S, Range 31E  
Lea County, New Mexico

## FIGURE

## 4



TABLES

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Mizar 11 Federal Com 1H  
 Devon Energy Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Delineation Soil Samples</b>										
SS01	10/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	96.3
SS02	10/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	96.2
SS03	10/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	126
SS04	10/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	125
SS05	10/19/2023	0	<0.0250	<0.0500	<20.0	26.4	<50.0	26.4	26.4	97.9
SS06	10/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	38.0
SS07	10/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	50.0
PH01	11/8/2023	0	<0.0250	2.472	29.3	7,720	3,330	11,050	11,050	731
PH01	11/8/2023	1	<0.0250	<0.0500	<20.0	281	446	727	727	181
PH01	11/8/2023	2	<0.0250	<0.0500	<20.0	259	385	644	644	254
PH01	11/8/2023	3	<0.0250	<0.0500	<20.0	96.5	117	213.5	213.5	303
PH01	12/18/2023	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	157
PH02	11/8/2023	0	<0.0250	<0.0500	<20.0	96.7	137	233.7	233.7	2,300
PH02	11/8/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	973
PH02	11/8/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	777
PH02	11/8/2023	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	977
PH02	12/18/2023	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	266
PH03	11/8/2023	0	<0.0250	<0.0500	<20.0	28.7	<50.0	<25.0	28.7	8,640
PH03	11/8/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	791
PH03	11/8/2023	2	<0.0250	<0.0500	<20.0	122	68.9	190.9	190.9	1,910
PH03	11/8/2023	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	136

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;": Laboratory Analytical result is less than reporting limit

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

\* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



**TABLE 1 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Mizar 11 Federal Com 1H  
 Devon Energy Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Delineation Soil Samples</b>										
PH04	1/18/2024	1	<0.0250	<0.0500	<20.0	113	77.1	190.1	190.1	3,520
PH04	1/18/2024	2	<0.0250	<0.0500	<20.0	55.4	<50.0	55.4	55.4	2,120
PH04	1/18/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	841
PH04	1/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	702
PH04	1/18/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,050
PH04	1/18/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,240
PH04	1/18/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	881
PH04	2/2/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	79.9
PH04	2/2/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	73.7
PH04	2/2/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	77.4
PH04	2/2/2024	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	89.1

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;": Laboratory Analytical result is less than reporting limit

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

\* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Mizar 11 Federal Com 1H  
 Devon Energy Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Excavation Floor Soil Samples</b>										
FS01	1/17/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	273
FS02	1/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	31.0	31.0	2,330
FS03	1/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	25.0	25.0	594
FS04	1/18/2024	0.5	<0.0250	<0.0500	<20.0	376	212	376	588	2,560
FS05	1/18/2024	0.5	<0.0250	<0.0500	<20.0	232	130	232	362	717
FS06	1/18/2024	1	<0.0250	<0.0500	<20.0	43.0	<50.0	43.0	43.0	2,930
FS07	1/18/2024	0.5	<0.0250	<0.0500	<20.0	131	113	131	244	2,490
FS08	1/18/2024	1	<0.0250	<0.0500	<20.0	186	191	186	377	4,870
FS09	1/18/2024	0.5	<0.0250	<0.0500	<20.0	385	483	385	868	2,200
FS10	1/18/2024	0.5	<0.0250	<0.0500	<20.0	122	228	122	350	2,040
FS11	1/18/2024	1	<0.0250	<0.0500	<20.0	301	240	301	541	2,750
FS12	1/18/2024	0.5	<0.0250	<0.0500	<20.0	150	114	150	264	1,120
FS13	1/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,250
FS14	1/18/2024	0.5	<0.0250	<0.0500	<20.0	95.6	83.8	95.6	179.4	1,710
FS15	1/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,010
FS16	1/18/2024	0.5	<0.0250	<0.0500	<20.0	67.0	66.0	67.0	133	1,730
FS17	1/18/2024	0.5	<0.0250	<0.0500	<20.0	39.7	82.7	39.7	122.4	1,340
FS18	1/18/2024	0.5	<0.0250	<0.0500	<20.0	26.8	<50.0	26.8	26.8	1,060
FS19	1/18/2024	0.5	<0.0250	<0.0500	<20.0	258	459	459	717	509
FS20	1/18/2024	1	<0.0250	<0.0500	<20.0	61.8	50.5	61.8	112.3	1,890

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCDC: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;": Laboratory Analytical result is less than reporting limit

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

\* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Mizar 11 Federal Com 1H  
 Devon Energy Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Excavation Floor Soil Samples</b>										
FS21	1/17/2024	1	<0.0250	<0.0500	<20.0	176	158	176	334	190
FS22	1/17/2024	1	<0.0250	<0.0500	<20.0	110	99.5	110	209.5	674
FS23	1/17/2024	1	<0.0250	<0.0500	<20.0	46.1	<50.0	46.1	46.1	544
FS24	1/17/2024	1	<0.0250	<0.0500	<20.0	52.5	57.0	52.5	109.5	948
FS25	1/17/2024	1	<0.0250	<0.0500	<20.0	25.5	<50.0	25.5	25.5	1,460
FS26	2/2/2024	0.5	<0.0250	<0.0500	<20.0	1,060	551	<b>1,060</b>	1,611	14,800
<b>Excavation Sidewall Soil Samples</b>										
SW01	1/18/2024	0-1	<0.0250	<0.0500	<20.0	27.8	<50.0	27.8	27.8	398
SW02	1/18/2024	0-1	<0.0250	<0.0500	<20.0	1,160	520	<b>1,160</b>	1,680	6,920

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;": Laboratory Analytical result is less than reporting limit

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

\* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes





APPENDIX A

Form 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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input 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

## Oil Conservation Division

Incident ID	
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 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 type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input 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: Dale Woodall	Title: Env. Professional
Signature: <u>Dale Woodall</u>	Date: _____
email: dale.woodall@dvn.com	Telephone: 575-748-1838
<b><u>OCD Only</u></b>	
Received by: Shelly Wells	Date: 10/4/2023



## APPENDIX B

### Well Log & Record

---



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1		WELL TAG ID NO. N/A		OSE FILE NO(S) CP-01989			
	WELL OWNER NAME(S) Devon Energy Production Company				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE Nm	ZIP 88240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 40	SECONDS 52.2012 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
LONGITUDE -103 50 56.3568 W								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit D, Section 11, Township 19S, Range 31E, Lea County, New Mexico								
2. DRILLING & CASING INFORMATION	LICENSE NO WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.		
	DRILLING STARTED 03/04/2024		DRILLING ENDED 03/04/2024		DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	5.00	Soil Boring	-	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2



4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	10	10		Y ✓ N	
	10	20	10	Sand, red/brown, coarse to fine grain with caliche gravel	Y ✓ N	
	20	30	10	Sand with clay, fine grain, trace caliche gravel, nonuniform	Y ✓ N	
	30	40	10	Sand with caliche gravel, red, coarse trace caliche gravel, nonuniform	Y ✓ N	
	40	50	10	Sandy-clay, red, very fine to fine, noncohesive	Y ✓ N	
	50	60	10	Sand with gravel, red to brown, 52 ft silica gravel layer, thickly bedded	Y ✓ N	
	60	70	10	Sand with gravel, red to brown, fine to medium grain, trace silica	Y ✓ N	
	70	80	10	Sand with clay, grey sand with red clay, 77 ft caliche layer thickly bedded	Y ✓ N	
	80	90	10	Sand with clay, grey sand with red clay, medium to fine grain, uniform	Y ✓ N	
	90	100	10	Sand with clay, light to med brown sand with dark red/brownw clay, fine, unif.	Y ✓ N	
	100	105	5	Sand with clay, light to med brown sand with dark red/brownw clay, fine, unif.	Y ✓ N	
	105	105	0	Sand with gravel, grey sand with red clay, medium to fine grain, trace gravel	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST    TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Scott Scarborough					
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	Scott Scarborough		Digitally signed by Scott Scarborough Date: 2024.03.25 08:44:51 -06'00'		Scott Scarborough    03/25/2024	
SIGNATURE OF DRILLER / PRINT SIGNEE NAME			DATE			

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO	PAGE 2 OF 2





## APPENDIX C

### Photographic Log

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## Photographic Log

Devon Energy Production Company

Mizar 11 Fed Com 1H

nAPP2327624998



Photograph 1

Date: 10/19/2023

Description: Lease Sign

View: North

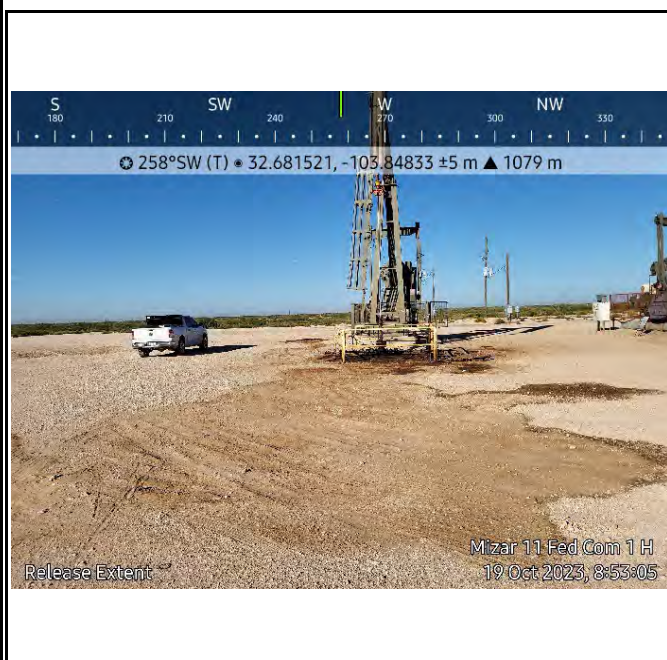


Photograph 2

Date: 10/19/2023

Description: Release Extent

View: Southwest



Photograph 3

Date: 10/19/2023

Description: Release Extent

View: West



Photograph 4

Date: 10/19/2023

Description: Release Extent

View: West





# Photographic Log

Devon Energy Production Company

Mizar 11 Fed Com 1H

nAPP2327624998

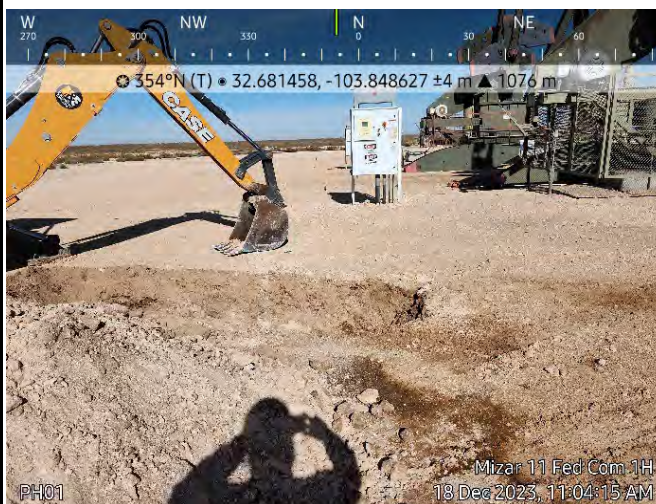


Photograph 5

Date: 11/08/2023

Description: Vertical Delineation

View: Northeast

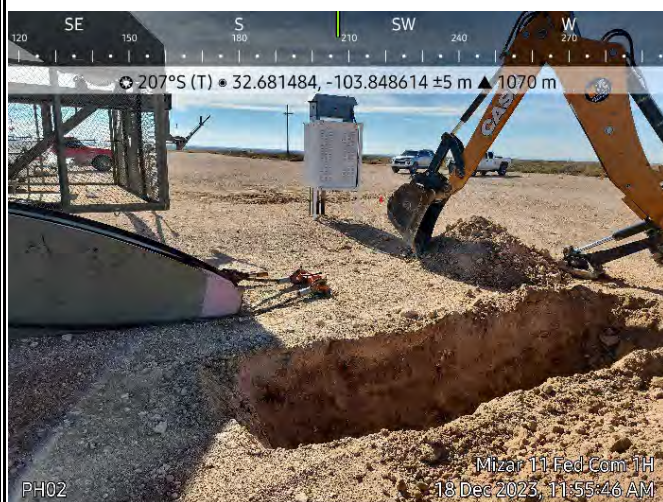


Photograph 6

Date: 12/18/2023

Description: Vertical Delineation

View: Southwest

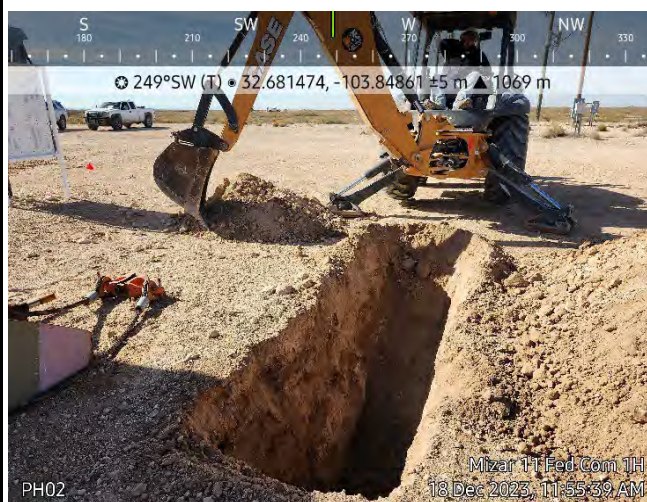


Photograph 7

Date: 12/18/2023

Description: Vertical Delineation

View: Southwest



Photograph 8

Date: 12/18/2023

Description: Vertical Delineation

View: Southwest



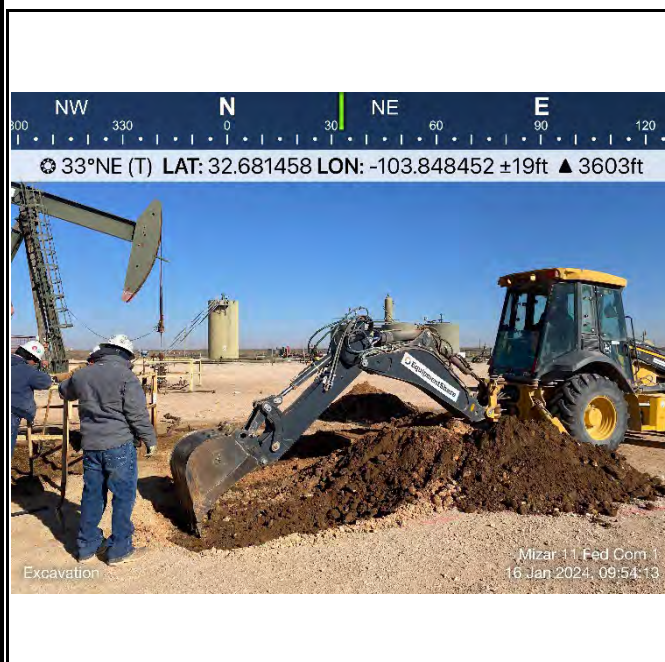


# Photographic Log

Devon Energy Production Company

Mizar 11 Fed Com 1H

nAPP2327624998



Photograph 9

Date: 01/16/2024

Description: Excavation

View: Northeast



Photograph 10

Date: 01/16/2024

Description: Excavation

View: Northeast



Photograph 11

Date: 01/16/2024

Description: Excavation

View: West



Photograph 12

Date: 01/17/2024

Description: Hydrovac for electrical lines

View: West



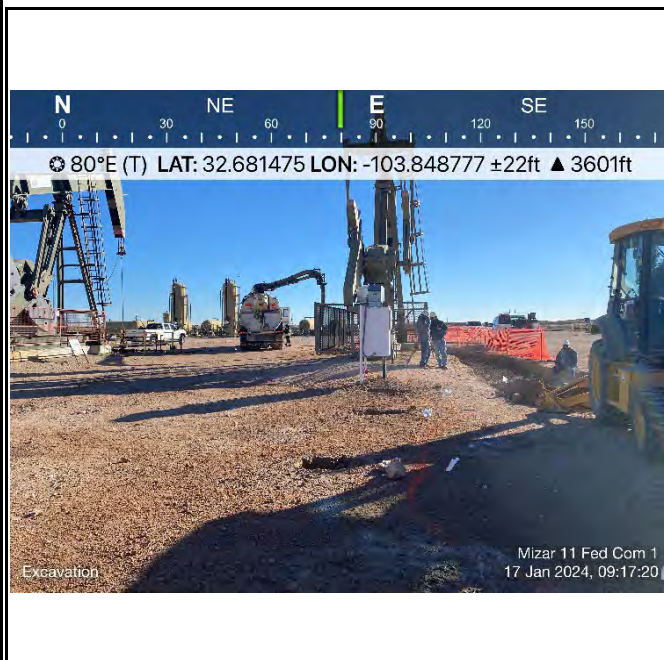


# Photographic Log

Devon Energy Production Company

Mizar 11 Fed Com 1H

nAPP2327624998



Photograph 13

Date: 01/17/2024

Description: Excavation

View: East

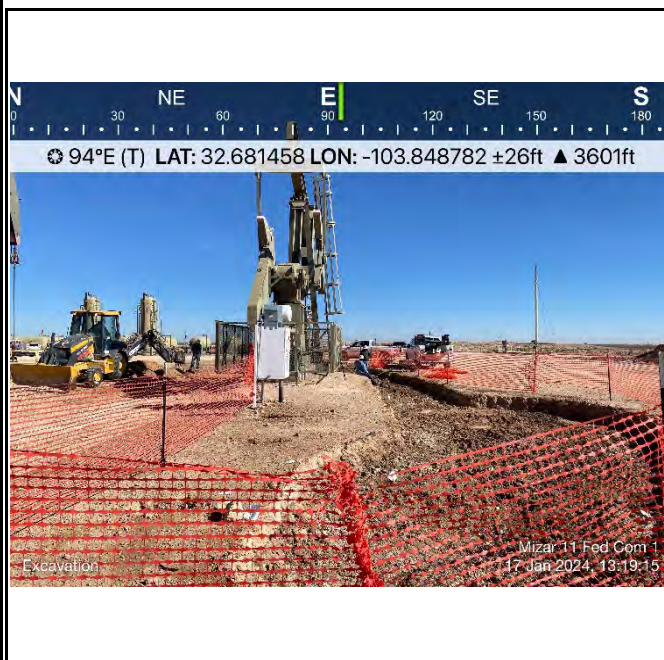


Photograph 14

Date: 01/17/2024

Description: Excavation

View: Northwest



Photograph 15

Date: 01/17/2024

Description: Excavation

View: East



Photograph 16

Date: 01/17/2024

Description: Excavation area

View: Southwest





# Photographic Log

Devon Energy Production Company

Mizar 11 Fed Com 1H

nAPP2327624998



Photograph 17  
Description: Scrape area  
View: Southeast

Date: 01/18/2024



Photograph 18  
Description: Hydrovac by well head  
View: East

Date: 01/18/2024



Photograph 19  
Description: Excavation and scrape area  
View: Northeast

Date: 01/18/2024



Photograph 20  
Description: Excavation and scrape area  
View: Southwest

Date: 01/18/2024



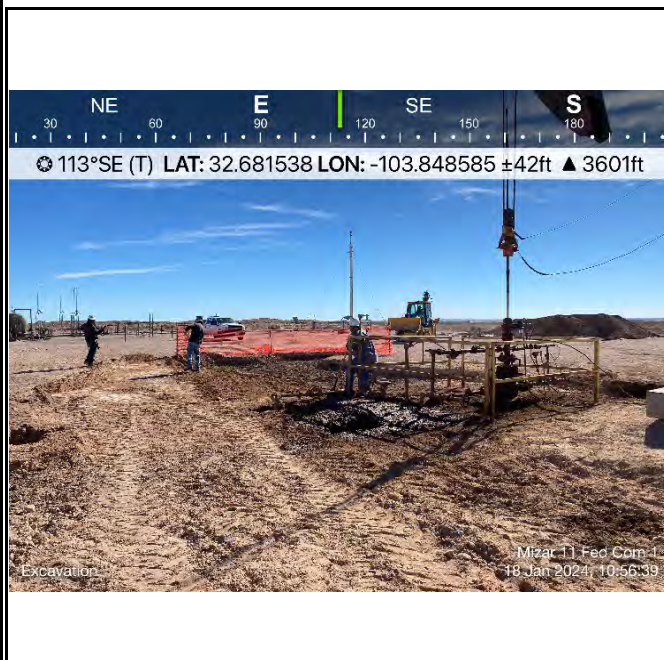


# Photographic Log

Devon Energy Production Company

Mizar 11 Fed Com 1H

nAPP2327624998



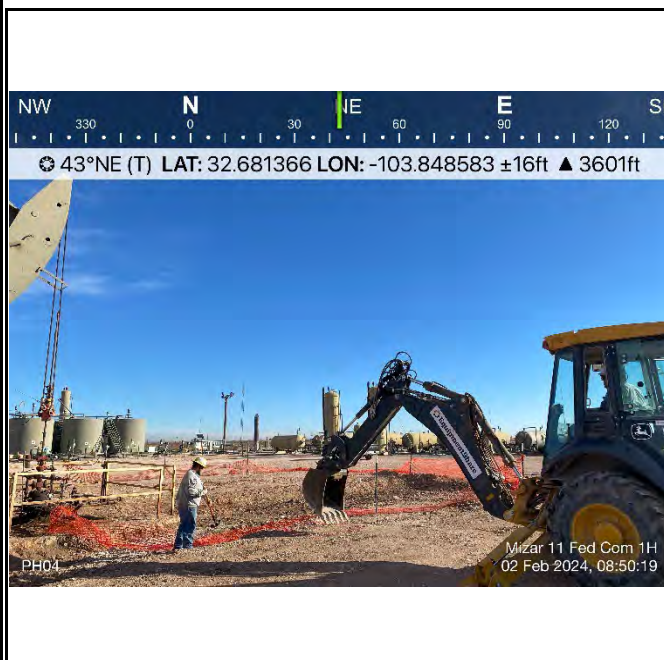
Photograph 21  
Description: Scrape area  
View: Southeast

Date: 01/18/2024



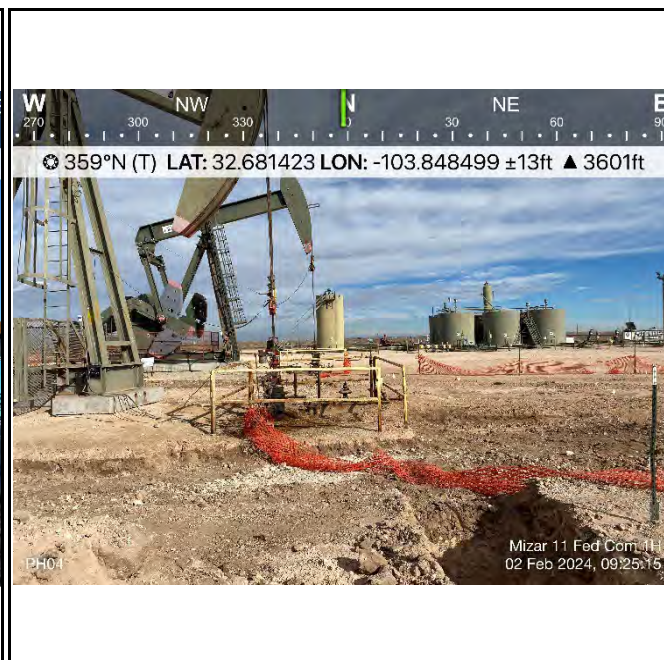
Photograph 22  
Description: Scrape area  
View: East

Date: 01/18/2024



Photograph 23  
Description: Potholing activities  
View: Northeast

Date: 02/02/2024



Photograph 24  
Description: PH04 and wellhead  
View: North


Date: 02/02/2024





## APPENDIX D

### Lithologic Soil Sampling Logs


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								Sample Name: PH01		Date: 11/8/23	
								Site Name: Mizar 11 Fed Com 1			
								Incident Number: nAPP2327624998			
								Job Number: 03A1987013			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Ronni Hayes		Method: Backhoe	
Coordinates: 32.681443, -103.848667								Hole Diameter: ~3 ft		Total Depth: 3 ft bgs	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1075.2	260.2	N	PH01	0	0	SP	SAND, sand-caliche mix, some limestone, medium brown, poorly graded			
D	302.4	23.9	N			0.5	SP				
D	<196	6.4	N	PH01	1	1	SP				
D	196	4.5	N	PH01	2	2	SP-GP	SAND, sand-gravel mixture, poorly graded, medium brown, abundant limestone			
D	263.2	0.8	N	PH01	3	3	SP-GP	SAND, sand-gravel mixture, poorly graded, Dark brown, abundant limestone			
D	706		N	PH01	4	4	SP	SAND, Loose, mstly light brn with sm tan, 90% fine to medium grain, 10% small to large limestone gravel, Dry, non-plastic, non cohesive, thickly bedded, non-uniform, alluvial, gradational			
D	ND		N	PH01	5	5	SP	SAND, Loose, mstly light red with sm tan, 70% fine to medium grain, 30% small to large limestone gravel, Dry, non-plastic, non cohesive, thickly bedded, non-uniform, alluvial, gradational			
D	168		N	PH01	6	6	SP				
Total Depth @ 6 ft bgs.											

 <b>ENSOLUM</b>								Sample Name: PH02		Date: 11/8/23	
								Site Name: Mizar 11 Fed Com 1			
								Incident Number: nAPP2327624998			
								Job Number: 03A1987013			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Ronni Hayes		Method: Backhoe	
Coordinates: 32.681554, -103.848628								Hole Diameter: ~3 ft		Total Depth: 4 ft bgs	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	2,217.6	1.7	N	PH02	0	0	SP	SAND, sand-caliche mix, some limestone, light brown, poorly graded			
D	1,164.8	2.3	N			0.5	SP	SAND, sand-caliche mix, some limestone, dark brown, poorly graded			
D	1,260	2.6	N	PH02	1	1	SP				
D	683.2	1.2	N	PH02	2	2	SP-GP	SAND, sand-gravel mixture, poorly graded, dark brown, abundant limestone			
D	498.4	1.0	N	PH02	3	3	SP-GP				
D	<196	0.7	N	PH02	4	4	SP-GP				
D	230		N	PH02	5	5	SP-GP	SAND, Loose, mstly light brn with sm tan, 70% fine to medium grain, 30% small to large limestone gravel, Dry, non-plastic, non cohesive, thickly bedded, non-uniform, alluvial, gradational			
D	ND		N	PH02	6	6	SP-GP				
Total Depth @ 6 ft bgs.											

 <b>ENSOLUM</b>								Sample Name: PH03		Date: 11/8/23	
								Site Name: Mizar 11 Fed Com 1			
								Incident Number: nAPP2327624998			
								Job Number: 03A1987013			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Ronni Hayes		Method: Backhoe	
Coordinates: 32.681493, -103.848381								Hole Diameter: ~3 ft		Total Depth: 3 ft bgs	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	3,360	4.8	N	PH03	0	0	SP	SAND, sand-caliche mix, some limestone, light brown, poorly graded			
D	1,360.8	3.1	N			0.5	SAA				
D	621.6	1.4	N	PH03	1	1	SAA				
D	2,217.6	0.8	N	PH03	2	2	SP-GP	SAND, sand-gravel mixture, poorly graded, dark brown, abundant limestone			
D	<196	1.3	N	PH03	3	3	SAA	Refusal at 3 ft bgs			
Total Depth @ 3 ft bgs.											



								Sample Name: PH04		Date: 2/2/2024	
								Site Name: Mizar 11 Fed Com 1H			
								Incident Number: nAPP2327624998			
								Job Number: 03A1987103			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Ethan Haft		Method: Back Hoe	
Coordinates:								Hole Diameter: 2ft		Total Depth: 11ft BGS	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFlag for total petroleum hydrocarbons (TPH). Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	n/a	n/a	Y			0	CCHE	Pad caliche. Patchy yellow-brown staining. Moist. Limestone pebbles.			
Dry	3,520	n/a	Y	PH04	1	1	CCHE	Pad caliche, brownish. Orange-brown stained spots. Frequent Limestone cobble.			
Wet	2,120	n/a	Y	PH04	2	2	SM	Friable dark brown to blackish silty clay. Moderately sorted, limestone gravel and cobble. Non-plastic.			
Dry	841	n/a	N	PH04	3	3	CCHE	Limestone bed rock, massive lens. Light white to buff tan, powdery when broken. Well sorted and consolidated carbonate rock.			
Dry	702	n/a	N	PH04	4	4	CCHE				
Dry	716	38	N	PH04	5	5	CCHE				
Dry	650	n/a	N	PH04	6	6	CCHE	Powdery carbonate soil, friable, med. brown. Moderate plasticity, well sorted silty clay. Occasional limestone cobble.			
Dry	881	n/a	N	PH04	7	7	SC				
Dry	ND	16	N	PH04	8	8	SM				
Dry	ND	10	N	PH04	9	9	SC	Well sorted light brown clay, plastic. Rare silt and limestone gravel.			
Dry	ND	5	N	PH04	10	10	SC				
Dry	ND	11	N	PH04	11	11	SM				
								Poorly sorted light brown silty clay. Limestone cobble, medium to low plasticity.			



## APPENDIX E

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Mizar 11 Fed Com 1H

Work Order: E310202

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/27/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/27/23

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: Mizar 11 Fed Com 1H  
Workorder: E310202  
Date Received: 10/23/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: Mizar 11 Fed Com 1H.

The analytical test results summarized in this report with the Project Name: Mizar 11 Fed Com 1H 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:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/23 14:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E310202-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
SS02 - 0'	E310202-02A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
SS03 - 0'	E310202-03A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
SS04 - 0'	E310202-04A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
SS05 - 0'	E310202-05A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
SS06 - 0'	E310202-06A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
SS07 - 0'	E310202-07A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/27/2023 2:02:40PM
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SS01 - 0'

E310202-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	101 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	110 %	70-130		10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2343024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	101 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	110 %	70-130		10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2343009	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/23/23	
Surrogate: n-Nonane	82.7 %	50-200		10/23/23	10/23/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	96.3	20.0	1	10/25/23	10/26/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/27/2023 2:02:40PM
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SS02 - 0'

E310202-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	112 %	70-130		10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	112 %	70-130		10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/23/23	
Surrogate: n-Nonane	80.9 %	50-200		10/23/23	10/23/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	96.2	20.0	1	10/25/23	10/26/23	





## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
10/27/2023 2:02:40PM

SS03 - 0'

E310202-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		111 %	70-130	10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		111 %	70-130	10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/23/23	
Surrogate: n-Nonane		85.5 %	50-200	10/23/23	10/23/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	126	20.0	1	10/25/23	10/26/23	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
10/27/2023 2:02:40PM

SS04 - 0'

E310202-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	112 %	70-130		10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	112 %	70-130		10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/23/23	
Surrogate: n-Nonane	82.1 %	50-200		10/23/23	10/23/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	125	20.0	1	10/25/23	10/26/23	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
10/27/2023 2:02:40PM

SS05 - 0'

E310202-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		112 %	70-130	10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		112 %	70-130	10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343009
Diesel Range Organics (C10-C28)	26.4	25.0	1	10/23/23	10/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/23/23	
Surrogate: n-Nonane		85.4 %	50-200	10/23/23	10/23/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	97.9	20.0	1	10/25/23	10/26/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/27/2023 2:02:40PM
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SS06 - 0'

E310202-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		111 %	70-130	10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		111 %	70-130	10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/23/23	
Surrogate: n-Nonane		85.7 %	50-200	10/23/23	10/23/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	38.0	20.0	1	10/25/23	10/26/23	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/27/2023 2:02:40PM
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SS07 - 0'

E310202-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/23/23	
Surrogate: n-Nonane		91.9 %	50-200	10/23/23	10/23/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	50.0	40.0	2	10/25/23	10/26/23	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/2023 2:02:40PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/2023 2:02:40PM

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 (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2) Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/2023 2:02:40PM

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 (2343009-BLK1)					Prepared: 10/23/23 Analyzed: 10/23/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.2		50.0		88.5	50-200			

LCS (2343009-BS1)					Prepared: 10/23/23 Analyzed: 10/23/23				
Diesel Range Organics (C10-C28)	250	25.0	250		99.8	38-132			
Surrogate: n-Nonane	44.5		50.0		88.9	50-200			

Matrix Spike (2343009-MS1)					Source: E310201-21		Prepared: 10/23/23 Analyzed: 10/23/23		
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.7	50-200			

Matrix Spike Dup (2343009-MSD1)					Source: E310201-21		Prepared: 10/23/23 Analyzed: 10/23/23		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.3	38-132	2.18	20	
Surrogate: n-Nonane	42.2		50.0		84.3	50-200			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/2023 2:02:40PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2343072-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343072-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2343072-MS1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	364	20.0	250	96.3	107	80-120			
Matrix Spike Dup (2343072-MSD1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	368	20.0	250	96.3	109	80-120	0.938	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:	Mizar 11 Fed Com 1H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/23 14:02

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



Project Information

Chain of Custody

Client: Devon Energy		Bill To		Lab Use Only		TAT		EPA Program					
Project: Mizar 11 Fed Com 1H		Attention: Dale Woodall		Lab WO# E310202		Job Number 010528007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 5315 Buena Vista Dr									X		
Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220											RCRA
City, State, Zip: Carlsbad NM, 88220		Phone: (575)689-7597											
Phone: 575-988-0055		Email: Dale.woodall@dv.com											
Email: agiovengo@ensolum.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
12:32	10/19/2023	Soil	1	SS01 - 0'	1						X		
10:36	10/19/2023	Soil	1	SS02 - 0'	2						X		
11:48	10/19/2023	Soil	1	SS03 - 0'	3						X		
12:12	10/19/2023	Soil	1	SS04 - 0'	4						X		
12:41	10/19/2023	Soil	1	SS05 - 0'	5						X		
12:35	10/19/2023	Soil	1	SS06 - 0'	6						X		
12:00	10/19/2023	Soil	1	SS07 - 0'	7						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, Dale.woodall@dv.com, chamilton@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.				Sampler by: Ethan Haft, Chad Hamilton		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
	10/22/25	1055		10-20-23	1055	Received on ice: Y / N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3	
	10-20-23	1545		10-20-23	1715		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C	
	10-20-23	2330		10-23-23	8:15	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 Analytical Laboratory

Printed: 10/23/2023 10:05:26AM

## 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:	10/23/23 08:15	Work Order ID:	E310202
Phone:	(505) 382-1211	Date Logged In:	10/20/23 15:50	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	10/27/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Mizar 11 Fed Com 1

Work Order: E311089

Job Number: 01058-0007

Received: 11/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/17/23

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: 11/17/23

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: Mizar 11 Fed Com 1  
Workorder: E311089  
Date Received: 11/10/2023 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/10/2023 7:00:00AM, under the Project Name: Mizar 11 Fed Com 1.

The analytical test results summarized in this report with the Project Name: Mizar 11 Fed Com 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

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**Michelle Golzaes**  
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Office: 505-421-LABS(5227)  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/17/23 17:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-0'	E311089-01A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH01-1'	E311089-02A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH01-2'	E311089-03A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH01-3'	E311089-04A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH02-0'	E311089-05A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH02-1'	E311089-06A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH02-2'	E311089-07A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH02-3'	E311089-08A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH02-4'	E311089-09A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH03-0'	E311089-10A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH03-1'	E311089-11A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH03-2'	E311089-12A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.
PH03-3'	E311089-13A	Soil	11/08/23	11/10/23	Glass Jar, 4 oz.





## Sample Data

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

Project Name: Mizar 11 Fed Com 1  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
11/17/2023 5:04:09PM

PH01-0'

E311089-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	0.328	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	0.727	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	0.347	0.0500	1	11/14/23	11/16/23	
Total Xylenes	1.07	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	29.3	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346044
Diesel Range Organics (C10-C28)	7720	50.0	2	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	3330	100	2	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346053
Chloride	731	20.0	1	11/15/23	11/15/23	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
11/17/2023 5:04:09PM

PH01-1'

E311089-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346044
Diesel Range Organics (C10-C28)	281	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	446	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	100 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346053
Chloride	181	20.0	1	11/15/23	11/15/23	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
11/17/2023 5:04:09PM

PH01-2'

E311089-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.1 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346044
Diesel Range Organics (C10-C28)	259	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	385	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	96.2 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346053
Chloride	254	20.0	1	11/15/23	11/15/23	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
11/17/2023 5:04:09PM

PH01-3'

E311089-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.5 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346044
Diesel Range Organics (C10-C28)	93.5	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	117	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	93.3 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346053
Chloride	303	20.0	1	11/15/23	11/15/23	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/17/2023 5:04:09PM
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PH02-0'

E311089-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346044
Diesel Range Organics (C10-C28)	96.7	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	137	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	97.9 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346053
Chloride	2300	20.0	1	11/15/23	11/15/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/17/2023 5:04:09PM
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PH02-1'

E311089-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	98.2 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2346044	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	91.9 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2346053	
Chloride	973	20.0	1	11/15/23	11/15/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/17/2023 5:04:09PM
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PH02-2'

E311089-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2346044	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	97.5 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2346053	
Chloride	777	20.0	1	11/15/23	11/15/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/17/2023 5:04:09PM
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PH02-3'

E311089-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.1 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2346044	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	99.1 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2346053	
Chloride	977	20.0	1	11/15/23	11/15/23	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
11/17/2023 5:04:09PM

PH03-0'

E311089-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.9 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346044
Diesel Range Organics (C10-C28)	28.7	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	97.9 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346053
Chloride	8640	200	10	11/15/23	11/15/23	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/17/2023 5:04:09PM
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PH03-1'

E311089-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2346023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2346044	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	93.9 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2346053	
Chloride	791	20.0	1	11/15/23	11/15/23	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
11/17/2023 5:04:09PM

PH03-2'

E311089-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346044
Diesel Range Organics (C10-C28)	122	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	68.9	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	94.1 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346053
Chloride	1910	20.0	1	11/15/23	11/15/23	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
11/17/2023 5:04:09PM

PH03-3'

E311089-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		11/14/23	11/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	90.7 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346053
Chloride	136	20.0	1	11/15/23	11/15/23	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/17/2023 5:04:09PM

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 (2346023-BLK1) Prepared: 11/14/23 Analyzed: 11/16/23

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	7.78		8.00		97.3	70-130			

LCS (2346023-BS1) Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

Matrix Spike (2346023-MS1) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133			
Toluene	5.05	0.0250	5.00	ND	101	61-130			
o-Xylene	5.00	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

Matrix Spike Dup (2346023-MSD1) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.21	0.0250	5.00	ND	104	54-133	2.96	20	
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	3.04	20	
Toluene	5.20	0.0250	5.00	ND	104	61-130	2.96	20	
o-Xylene	5.17	0.0250	5.00	ND	103	63-131	3.37	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	3.06	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131	3.16	20	
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/17/2023 5:04:09PM

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 (2346023-BLK1) Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

LCS (2346023-BS2) Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2346023-MS2) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike Dup (2346023-MSD2) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/17/2023 5:04:09PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346044-BLK1)					Prepared: 11/15/23 Analyzed: 11/15/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			

LCS (2346044-BS1)					Prepared: 11/15/23 Analyzed: 11/15/23				
Diesel Range Organics (C10-C28)	235	25.0	250		94.1	38-132			
Surrogate: n-Nonane	50.0		50.0		99.9	50-200			

Matrix Spike (2346044-MS1)					Source: E311089-02		Prepared: 11/15/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	494	25.0	250	281	85.2	38-132			
Surrogate: n-Nonane	53.6		50.0		107	50-200			

Matrix Spike Dup (2346044-MSD1)					Source: E311089-02		Prepared: 11/15/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	485	25.0	250	281	81.8	38-132	1.71	20	
Surrogate: n-Nonane	53.7		50.0		107	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/17/2023 5:04:09PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2346053-BLK1)					Prepared: 11/15/23 Analyzed: 11/15/23				
Chloride	ND	20.0							
LCS (2346053-BS1)					Prepared: 11/15/23 Analyzed: 11/15/23				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2346053-MS1)					Source: E311089-03		Prepared: 11/15/23 Analyzed: 11/15/23		
Chloride	512	20.0	250	254	103	80-120			
Matrix Spike Dup (2346053-MSD1)					Source: E311089-03		Prepared: 11/15/23 Analyzed: 11/15/23		
Chloride	505	20.0	250	254	100	80-120	1.42	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:	Mizar 11 Fed Com 1	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/17/23 17:04

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



<b>Client:</b> Devon Energy <b>Project:</b> Mizar 11 Fed Com 1 <b>Project Manager:</b> Ashley Giovengo <b>Address:</b> 3122 National Parks Hwy <b>City, State, Zip:</b> Carlsbad, NM 88220 <b>Phone:</b> 575-988-0055 <b>Email:</b> agiovengo@ensolum.com <b>Report due by:</b>	<b>Bill To</b> <b>Attention:</b> Dale Woodall <b>Address:</b> 5315 Buena Vista Dr. <b>City, State, Zip:</b> Carlsbad, NM 88220 <b>Phone:</b> (575)689-7597 <b>Email:</b> Dale.woodall@dv.com	<b>Lab Use Only</b> <b>Lab WO#</b> E311089 <b>Job Number</b> 01058-0007	<b>TAT</b> 1D 2D 3D Standard x	<b>EPA Program</b> CWA SDWA RCRA
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	TX	Remarks
949	11/8/2023	S	1	PH01-0'	1						X		
955	11/8/2023	S	1	PH01-1'	2						X		
1000	11/8/2023	S	1	PH01-2'	3						X		
1005	11/8/2023	S	1	PH01-3'	4						X		
1020	11/8/2023	S	1	PH02-0'	5						X		
1024	11/8/2023	S	1	PH02-1'	6						X		
1030	11/8/2023	S	1	PH02-2'	7						X		
1038	11/8/2023	S	1	PH02-3'	8						X		
1130	11/8/2023	S	1	PH02-4'	9						X		Hold-do not test until requested.
1055	11/8/2023	S	1	PH03-0'	10						X		

**Additional Instructions:** CC agiovengo@ensolum.com, cburton@ensolum.com, and rhayes@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
<i>[Signature]</i>				<i>Michelle Kough</i>		11-9-23	1115	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3			
<i>Michelle Kough</i>		11-9-23	1730	<i>[Signature]</i>		11-9-23	1830				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C			
<i>[Signature]</i>		11-9-23	2400	<i>Rainaldy</i>		11/10/23	7:00	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.											



Client: Devon Energy				Bill To				Lab Use Only						TAT			EPA Program					
Project: Mizar 11 Fed Com 1				Attention: Dale Woodall				Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo				Address: 5315 Buena Vista Dr.				E311089		01058-0007							x					
Address: 3122 National Parks Hwy				City, State, Zip Carlsbad, NM 88220				Analysis and Method												RCRA		
City, State, Zip Carlsbad, NM 88220				Phone: (575)689-7597				TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	GDOC TX	State						
Email: agiovengo@ensolum.com				Email: Dale.woodall@dvn.com												NM	CO	UT	AZ	TX		
Report due by:																		Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
1100	11/8/2023	S	1	PH03-1'	11								X									
1103	11/8/2023	S	1	PH03-2'	12								X									
1109	11/8/2023	S	1	PH03-3'	13								X									
Additional Instructions: CC agiovengo@ensolum.com, cburton@ensolum.com, and rhayes@ensolum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												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)												Received by: (Signature)										
Date												Date										
Time												Time										
Relinquished by: (Signature)												Received by: (Signature)										
Date												Date										
Time												Time										
Relinquished by: (Signature)												Received by: (Signature)										
Date												Date										
Time												Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



## Envirotech Analytical Laboratory

Printed: 11/13/2023 11:47:29AM

## 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:	11/10/23 07:00	Work Order ID:	E311089
Phone:	(505) 382-1211	Date Logged In:	11/10/23 10:34	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wescominc.com	Due Date:	11/16/23 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: Courier**Comments/Resolution**

Sample PH02-4 is on hold per client to not test until requested as noted on the COC in remarks.

**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: Mizar 11 Fed Com 1H

Work Order: E312134

Job Number: 01058-0007

Received: 12/20/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/27/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/27/23

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: Mizar 11 Fed Com 1H  
Workorder: E312134  
Date Received: 12/20/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/20/2023 8:30:00AM, under the Project Name: Mizar 11 Fed Com 1H.

The analytical test results summarized in this report with the Project Name: Mizar 11 Fed Com 1H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/27/23 14:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-5'	E312134-01A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
PH01-6'	E312134-02A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
PH02-5'	E312134-03A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
PH02-6'	E312134-04A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.





## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
12/27/2023 2:55:40PM

## PH01-5'

## E312134-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351060
Benzene	ND	0.0250	1	12/20/23	12/23/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/23/23	
Toluene	ND	0.0250	1	12/20/23	12/23/23	
o-Xylene	ND	0.0250	1	12/20/23	12/23/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/23/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/23/23	
Surrogate: 4-Bromochlorobenzene-PID	97.6 %	70-130		12/20/23	12/23/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351060
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.1 %	70-130		12/20/23	12/23/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351054
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
Surrogate: n-Nonane	82.5 %	50-200		12/20/23	12/21/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351070
Chloride	157	20.0	1	12/20/23	12/22/23	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
12/27/2023 2:55:40PM

PH02-5'

E312134-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351060
Benzene	ND	0.0250	1	12/20/23	12/23/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/23/23	
Toluene	ND	0.0250	1	12/20/23	12/23/23	
o-Xylene	ND	0.0250	1	12/20/23	12/23/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/23/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/23/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		12/20/23	12/23/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351060
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/23/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		12/20/23	12/23/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351054
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
<i>Surrogate: n-Nonane</i>						
	89.2 %	50-200		12/20/23	12/21/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351070
Chloride	266	20.0	1	12/20/23	12/22/23	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/27/2023 2:55:40PM

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 (2351060-BLK1) Prepared: 12/20/23 Analyzed: 12/20/23

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	7.56		8.00		94.5	70-130			

LCS (2351060-BS1) Prepared: 12/20/23 Analyzed: 12/20/23

Benzene	4.81	0.0250	5.00		96.2	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.3	70-130			
Toluene	4.81	0.0250	5.00		96.2	70-130			
o-Xylene	4.77	0.0250	5.00		95.5	70-130			
p,m-Xylene	9.71	0.0500	10.0		97.1	70-130			
Total Xylenes	14.5	0.0250	15.0		96.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

Matrix Spike (2351060-MS1) Source: E312131-09 Prepared: 12/20/23 Analyzed: 12/20/23

Benzene	4.96	0.0250	5.00	ND	99.1	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.3	61-133			
Toluene	4.97	0.0250	5.00	ND	99.3	61-130			
o-Xylene	4.93	0.0250	5.00	ND	98.5	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	99.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130			

Matrix Spike Dup (2351060-MSD1) Source: E312131-09 Prepared: 12/20/23 Analyzed: 12/20/23

Benzene	4.75	0.0250	5.00	ND	95.0	54-133	4.22	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.3	61-133	4.19	20	
Toluene	4.75	0.0250	5.00	ND	95.0	61-130	4.45	20	
o-Xylene	4.72	0.0250	5.00	ND	94.5	63-131	4.19	20	
p,m-Xylene	9.62	0.0500	10.0	ND	96.2	63-131	4.20	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.6	63-131	4.20	20	
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/27/2023 2:55:40PM

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 (2351060-BLK1) Prepared: 12/20/23 Analyzed: 12/20/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.7	70-130			

LCS (2351060-BS2) Prepared: 12/20/23 Analyzed: 12/20/23

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

Matrix Spike (2351060-MS2) Source: E312131-09 Prepared: 12/20/23 Analyzed: 12/20/23

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

Matrix Spike Dup (2351060-MSD2) Source: E312131-09 Prepared: 12/20/23 Analyzed: 12/20/23

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.2	70-130	11.9	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/27/2023 2:55:40PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351054-BLK1)					Prepared: 12/20/23 Analyzed: 12/20/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.9	50-200			

LCS (2351054-BS1)					Prepared: 12/20/23 Analyzed: 12/20/23				
Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			

Matrix Spike (2351054-MS1)					Source: E312118-03		Prepared: 12/20/23 Analyzed: 12/20/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132			
Surrogate: n-Nonane	44.0		50.0		88.0	50-200			

Matrix Spike Dup (2351054-MSD1)					Source: E312118-03		Prepared: 12/20/23 Analyzed: 12/20/23		
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	1.02	20	
Surrogate: n-Nonane	43.8		50.0		87.6	50-200			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/27/2023 2:55:40PM

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 (2351070-BLK1)					Prepared: 12/20/23 Analyzed: 12/22/23				
Chloride	ND	20.0							
LCS (2351070-BS1)					Prepared: 12/20/23 Analyzed: 12/22/23				
Chloride	243	20.0	250		97.3	90-110			
Matrix Spike (2351070-MS1)					Source: E312133-03		Prepared: 12/20/23 Analyzed: 12/22/23		
Chloride	5890	40.0	250	5410	189	80-120			M4
Matrix Spike Dup (2351070-MSD1)					Source: E312133-03		Prepared: 12/20/23 Analyzed: 12/22/23		
Chloride	6540	40.0	250	5410	451	80-120	10.6	20	M4

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/27/23 14:55

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

[illegible]

envirotech

## Envirotech Analytical Laboratory

Printed: 12/20/2023 4:40:18PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	12/20/23 08:30	Work Order ID:	E312134
Phone:	(505) 382-1211	Date Logged In:	12/19/23 14:33	Logged In By:	Jordan Montano
Email:	ashley.giovengo@wescominc.com	Due Date:	12/28/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

See COC remarks for samples 2 and 4

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: Mizar 11 Fed Com 1H

Work Order: E401120

Job Number: 01058-0007

Received: 1/20/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/26/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/26/24

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: Mizar 11 Fed Com 1H  
Workorder: E401120  
Date Received: 1/20/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/20/2024 6:00:00AM, under the Project Name: Mizar 11 Fed Com 1H.

The analytical test results summarized in this report with the Project Name: Mizar 11 Fed Com 1H 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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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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## Sample Summary

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/26/24 16:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02-0.5'	E401120-01A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS03-0.5'	E401120-02A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS04-0.5'	E401120-03A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS05-0.5'	E401120-04A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS06-1'	E401120-05A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS07-0.5'	E401120-06A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS08-1'	E401120-07A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS09-0.5'	E401120-08A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS10-0.5'	E401120-09A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS11-1'	E401120-10A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS12-0.5'	E401120-11A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS13-0.5'	E401120-12A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS14-0.5'	E401120-13A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS15-0.5'	E401120-14A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS16-0.5'	E401120-15A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS17-0.5'	E401120-16A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS18-0.5'	E401120-17A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS19-0.5'	E401120-18A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
FS20-1'	E401120-19A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
SW01-0-1'	E401120-20A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
SW02-0-1'	E401120-21A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
PH04-1'	E401120-22A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
PH04-2'	E401120-23A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
PH04-3'	E401120-24A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
PH04-4'	E401120-25A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
PH04-5'	E401120-26A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
PH04-6'	E401120-27A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
PH04-7'	E401120-28A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
1/26/2024 4:56:53PM

FS02-0.5'

E401120-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	103 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	31.0	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
<i>Surrogate: n-Nonane</i>						
	78.3 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	2330	20.0	1	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS03-0.5'

E401120-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	25.0	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	79.4 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	594	20.0	1	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS04-0.5'

E401120-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	108 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	376	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	212	50.0	1	01/23/24	01/23/24	
<i>Surrogate: n-Nonane</i>						
	84.3 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	2560	40.0	2	01/22/24	01/23/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS05-0.5'

E401120-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	106 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.9 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	232	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	130	50.0	1	01/23/24	01/23/24	
<i>Surrogate: n-Nonane</i>						
	80.3 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	717	20.0	1	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS06-1'

E401120-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	43.0	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	79.0 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	2930	40.0	2	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS07-0.5'

E401120-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.0 %	70-130	01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	131	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	113	50.0	1	01/23/24	01/23/24	
<i>Surrogate: n-Nonane</i>						
		81.1 %	50-200	01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	2490	40.0	2	01/22/24	01/22/24	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
1/26/2024 4:56:53PM

FS08-1'

E401120-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	102 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	186	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	191	50.0	1	01/23/24	01/23/24	
<i>Surrogate: n-Nonane</i>						
	80.2 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	4870	40.0	2	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS09-0.5'

E401120-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.1 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	385	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	483	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	83.3 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	2200	40.0	2	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS10-0.5'

E401120-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	122	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	228	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane		85.2 %	50-200	01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	2040	40.0	2	01/22/24	01/23/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS11-1'

E401120-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.5 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	301	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	240	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	79.7 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	2750	40.0	2	01/22/24	01/23/24	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
1/26/2024 4:56:53PM

FS12-0.5'

E401120-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2404006
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2404006
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.9 %	70-130	01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404027
Diesel Range Organics (C10-C28)	150	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	114	50.0	1	01/23/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
		80.3 %	50-200	01/23/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404014
Chloride	1120	20.0	1	01/22/24	01/23/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS13-0.5'

E401120-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.9 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	81.0 %	50-200		01/23/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	1250	40.0	2	01/22/24	01/23/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS14-0.5'

E401120-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	95.6	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	83.8	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	78.9 %	50-200		01/23/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	1710	20.0	1	01/22/24	01/23/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS15-0.5'

E401120-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	78.4 %	50-200		01/23/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	1010	20.0	1	01/22/24	01/23/24	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
1/26/2024 4:56:53PM

FS16-0.5'

E401120-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.8 %	70-130	01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	67.0	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	66.0	50.0	1	01/23/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
		80.1 %	50-200	01/23/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	1730	20.0	1	01/22/24	01/23/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS17-0.5'

E401120-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	99.3 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.6 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	39.7	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	82.7	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	82.4 %	50-200		01/23/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	1340	20.0	1	01/22/24	01/23/24	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
1/26/2024 4:56:53PM

FS18-0.5'

E401120-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2404006
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2404006
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404027
Diesel Range Organics (C10-C28)	26.8	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	80.3 %	50-200		01/23/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404014
Chloride	1060	20.0	1	01/22/24	01/23/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS19-0.5'

E401120-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.2 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	258	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	459	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	80.3 %	50-200		01/23/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	509	20.0	1	01/22/24	01/23/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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FS20-1'

E401120-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/24/24	
Toluene	ND	0.0250	1	01/22/24	01/24/24	
o-Xylene	ND	0.0250	1	01/22/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	99.3 %	70-130		01/22/24	01/24/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.4 %	70-130		01/22/24	01/24/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	61.8	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	50.5	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	80.2 %	50-200		01/23/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	1890	20.0	1	01/22/24	01/23/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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SW01-0-1'  
E401120-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Benzene	ND	0.0250	1	01/22/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/24/24	
Toluene	ND	0.0250	1	01/22/24	01/24/24	
o-Xylene	ND	0.0250	1	01/22/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	98.9 %	70-130		01/22/24	01/24/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		01/22/24	01/24/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404027	
Diesel Range Organics (C10-C28)	27.8	25.0	1	01/23/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/24/24	
Surrogate: n-Nonane	83.5 %	50-200		01/23/24	01/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404014	
Chloride	398	20.0	1	01/22/24	01/23/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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SW02-0-1'  
E401120-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/22/24	
Ethylbenzene	0.0265	0.0250	1	01/22/24	01/22/24	
Toluene	ND	0.0250	1	01/22/24	01/22/24	
o-Xylene	0.0273	0.0250	1	01/22/24	01/22/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/22/24	
Total Xylenes	0.0273	0.0250	1	01/22/24	01/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	01/22/24	01/22/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.5 %	70-130	01/22/24	01/22/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404018	
Diesel Range Organics (C10-C28)	1160	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	520	50.0	1	01/23/24	01/23/24	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	6920	100	5	01/22/24	01/22/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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PH04-1'

E401120-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/22/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/22/24	
Toluene	ND	0.0250	1	01/22/24	01/22/24	
o-Xylene	ND	0.0250	1	01/22/24	01/22/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/22/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/22/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		01/22/24	01/22/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		01/22/24	01/22/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404018	
Diesel Range Organics (C10-C28)	113	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	77.1	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	108 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	3520	40.0	2	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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PH04-2'

E401120-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	94.8 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404018	
Diesel Range Organics (C10-C28)	55.4	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	104 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	2120	40.0	2	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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PH04-3'

E401120-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404018	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	841	20.0	1	01/22/24	01/22/24	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
1/26/2024 4:56:53PM

PH04-4'

E401120-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404018	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	702	20.0	1	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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PH04-5'

E401120-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404018	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	112 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	1050	40.0	2	01/22/24	01/22/24	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
1/26/2024 4:56:53PM

PH04-6'

E401120-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404018	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	1240	20.0	1	01/22/24	01/22/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/26/2024 4:56:53PM
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PH04-7'

E401120-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/22/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/22/24	
Toluene	ND	0.0250	1	01/22/24	01/22/24	
o-Xylene	ND	0.0250	1	01/22/24	01/22/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/22/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/22/24	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		01/22/24	01/22/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		01/22/24	01/22/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404018	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	104 %	50-200		01/23/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	881	20.0	1	01/22/24	01/22/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/26/2024 4:56:53PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404005-BLK1) Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

LCS (2404005-BS1) Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	4.82	0.0250	5.00		96.4	70-130			
Ethylbenzene	4.64	0.0250	5.00		92.7	70-130			
Toluene	4.82	0.0250	5.00		96.4	70-130			
o-Xylene	4.78	0.0250	5.00		95.7	70-130			
p,m-Xylene	9.59	0.0500	10.0		95.9	70-130			
Total Xylenes	14.4	0.0250	15.0		95.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			

Matrix Spike (2404005-MS1) Source: E401120-28 Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	5.00	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.81	0.0250	5.00	ND	96.2	61-133			
Toluene	5.00	0.0250	5.00	ND	99.9	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2404005-MSD1) Source: E401120-28 Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	5.12	0.0250	5.00	ND	102	54-133	2.38	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.5	61-133	2.43	20	
Toluene	5.12	0.0250	5.00	ND	102	61-130	2.42	20	
o-Xylene	5.07	0.0250	5.00	ND	101	63-131	2.29	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	2.50	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	2.43	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/26/2024 4:56:53PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2404006-BLK1) Prepared: 01/22/24 Analyzed: 01/23/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							

Surrogate: 4-Bromochlorobenzene-PID 7.57 8.00 94.6 70-130

LCS (2404006-BS1) Prepared: 01/22/24 Analyzed: 01/23/24

Benzene	5.31	0.0250	5.00		106	70-130			
Ethylbenzene	5.11	0.0250	5.00		102	70-130			
Toluene	5.32	0.0250	5.00		106	70-130			
o-Xylene	5.25	0.0250	5.00		105	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		106	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.82 8.00 97.7 70-130

Matrix Spike (2404006-MS1) Source: E401120-10 Prepared: 01/22/24 Analyzed: 01/24/24

Benzene	4.94	0.0250	5.00	ND	98.7	54-133			
Ethylbenzene	4.79	0.0250	5.00	ND	95.9	61-133			
Toluene	4.96	0.0250	5.00	ND	99.1	61-130			
o-Xylene	4.90	0.0250	5.00	ND	97.9	63-131			
p,m-Xylene	9.91	0.0500	10.0	ND	99.1	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.7	63-131			

Surrogate: 4-Bromochlorobenzene-PID 8.06 8.00 101 70-130

Matrix Spike Dup (2404006-MSD1) Source: E401120-10 Prepared: 01/22/24 Analyzed: 01/24/24

Benzene	5.14	0.0250	5.00	ND	103	54-133	3.97	20	
Ethylbenzene	4.98	0.0250	5.00	ND	99.6	61-133	3.80	20	
Toluene	5.15	0.0250	5.00	ND	103	61-130	3.84	20	
o-Xylene	5.09	0.0250	5.00	ND	102	63-131	3.88	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	3.74	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	3.78	20	

Surrogate: 4-Bromochlorobenzene-PID 8.09 8.00 101 70-130



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/26/2024 4:56:53PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404005-BLK1) Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.8	70-130			

LCS (2404005-BS2) Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		88.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike (2404005-MS2) Source: E401120-28 Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			

Matrix Spike Dup (2404005-MSD2) Source: E401120-28 Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130	8.72	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/26/2024 4:56:53PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404006-BLK1) Prepared: 01/22/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

LCS (2404006-BS2) Prepared: 01/22/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	36.6	20.0	50.0		73.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike (2404006-MS2) Source: E401120-10 Prepared: 01/22/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2404006-MSD2) Source: E401120-10 Prepared: 01/22/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.3	70-130	16.1	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/26/2024 4:56:53PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404018-BLK1)	Prepared: 01/23/24 Analyzed: 01/23/24								
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.6		50.0		107	50-200			

LCS (2404018-BS1)	Prepared: 01/23/24 Analyzed: 01/23/24								
Diesel Range Organics (C10-C28)	191	25.0	250		76.6	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

Matrix Spike (2404018-MS1)				Source: E401120-24	Prepared: 01/23/24 Analyzed: 01/23/24				
Diesel Range Organics (C10-C28)	223	25.0	250	ND	89.0	38-132			
Surrogate: n-Nonane	53.6		50.0		107	50-200			

Matrix Spike Dup (2404018-MSD1)				Source: E401120-24	Prepared: 01/23/24 Analyzed: 01/23/24				
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	38-132	2.19	20	
Surrogate: n-Nonane	53.7		50.0		107	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/26/2024 4:56:53PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404027-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.8		50.0		81.6	50-200			

LCS (2404027-BS1) Prepared: 01/23/24 Analyzed: 01/23/24

Diesel Range Organics (C10-C28)	174	25.0	250		69.4	38-132			
Surrogate: n-Nonane	40.2		50.0		80.5	50-200			

Matrix Spike (2404027-MS1) Source: E401120-12 Prepared: 01/23/24 Analyzed: 01/23/24

Diesel Range Organics (C10-C28)	203	25.0	250	ND	81.1	38-132			
Surrogate: n-Nonane	38.2		50.0		76.3	50-200			

Matrix Spike Dup (2404027-MSD1) Source: E401120-12 Prepared: 01/23/24 Analyzed: 01/23/24

Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.8	38-132	13.4	20	
Surrogate: n-Nonane	38.0		50.0		76.0	50-200			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/26/2024 4:56:53PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2404014-BLK1)					Prepared: 01/22/24 Analyzed: 01/22/24				
Chloride	ND	20.0							
LCS (2404014-BS1)					Prepared: 01/22/24 Analyzed: 01/22/24				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2404014-MS1)					Source: E401120-03		Prepared: 01/22/24 Analyzed: 01/23/24		
Chloride	2950	40.0	250	2560	157	80-120			M4
Matrix Spike Dup (2404014-MSD1)					Source: E401120-03		Prepared: 01/22/24 Analyzed: 01/23/24		
Chloride	2870	40.0	250	2560	124	80-120	2.77	20	M4



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/26/2024 4:56:53PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2404017-BLK1)					Prepared: 01/22/24 Analyzed: 01/22/24				
Chloride	ND	20.0							
LCS (2404017-BS1)					Prepared: 01/22/24 Analyzed: 01/22/24				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2404017-MS1)					Source: E401123-02		Prepared: 01/22/24 Analyzed: 01/22/24		
Chloride	753	20.0	250	475	111	80-120			
Matrix Spike Dup (2404017-MSD1)					Source: E401123-02		Prepared: 01/22/24 Analyzed: 01/22/24		
Chloride	746	20.0	250	475	108	80-120	0.936	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:	Mizar 11 Fed Com 1H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/26/24 16:56

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Client: Devon Energy					<b>Bill To</b> Attention: Dale Woodall Address: 205 E Bender Rd #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: Dale.woodall@dvn.com		Lab Use Only						TAT				EPA Program			
Project: Mizar 11 Fed Com 1H							Lab WO#	Job Number					1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Gioveno							E 401120 01058-0007								X					
Address: 3122 National Parks Hwy							Analysis and Method												RCRA	
City, State, Zip: Carlsbad NM, 88220							TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					BGDOC NM	GDOC TX			
Phone: 575-988-0055																State				
Email: agiovengo@ensolum.com																NM	CO	UT	AZ	TX
Report due by:																X				
																Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
11:35	1/18/2024	Soil	1	FS02 - 0.5'	1									X						
11:37	1/18/2024	Soil	1	FS03 - 0.5'	2									X						
11:40	1/18/2024	Soil	1	FS04 - 0.5'	3									X						
11:38	1/18/2024	Soil	1	FS05 - 0.5'	4									X						
10:27	1/18/2024	Soil	1	FS06 - 1'	5									X						
11:42	1/18/2024	Soil	1	FS07 - 0.5'	6									X						
8:59	1/18/2024	Soil	1	FS08 - 1'	7									X						
11:43	1/18/2024	Soil	1	FS09 - 0.5'	8									X						
10:07	1/18/2024	Soil	1	FS10 - 0.5'	9									X						
8:52	1/18/2024	Soil	1	FS11 - 1'	10									X						
<b>Additional Instructions:</b> Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, ehafth@ensolum.com - KEPT ON ICE																				
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.								
Sampled by: Ethan Haft																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
Ethan Haft		1/19/24	0730	Michelle Gray		1-19-24	0700	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N												
Michelle Gray		1-19-24	1520	Andrew		1-19-24	1630	T1 _____ T2 _____ T3 _____												
Andrew		1-19-24	2300	Ally		1/20/24	0000	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.																				



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Client: Devon Energy	<b>Bill To</b> Attention: Dale Woodall Address: 205 E Bender Rd #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: Dale.woodall@dvn.com	<b>Lab Use Only</b>				<b>TAT</b>				<b>EPA Program</b>	
Project: Mizar 11 Fed Com 1H		Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		E 401120	01058007						X		
Address: 3122 National Parks Hwy		<b>Analysis and Method</b>									
City, State, Zip: Carlsbad NM, 88220											
Phone: 575-988-0055	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX	
Email: agiovengo@ensolum.com	State										
Report due by:	NM CO UT AZ TX										
	x										

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
10:10	1/18/2024	Soil	1	FS12 - 0.5'	11						X		
10:12	1/18/2024	Soil	1	FS13 - 0.5'	12						X		
10:02	1/18/2024	Soil	1	FS14 - 0.5'	13						X		
10:08	1/18/2024	Soil	1	FS15 - 0.5'	14						X		
9:54	1/18/2024	Soil	1	FS16 - 0.5'	15						X		
9:56	1/18/2024	Soil	1	FS17 - 0.5'	16						X		
9:50	1/18/2024	Soil	1	FS18 - 0.5'	17						X		
9:47	1/18/2024	Soil	1	FS19 - 0.5'	18						X		
7:50	1/18/2024	Soil	1	FS20 - 1'	19						X		
15:12	1/18/2024	Soil	1	SW01 - 0-1'	20						X		

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, ehaf@ensolum.com - KEPT ON ICE

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

Sampled by: Ethan Huff

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) <u>Ethan Huff</u>	Date 1/19/24	Time 0730	Received by: (Signature) <u>Michelle Gayle</u>	Date 1-19-24	Time 0730	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gayle</u>	Date 1-19-24	Time 1520	Received by: (Signature) <u>Andrew Shabo</u>	Date 1-19-24	Time 1630	
Relinquished by: (Signature) <u>Andrew Shabo</u>	Date 1-19-24	Time 2300	Received by: (Signature) <u>Andrew Shabo</u>	Date 1-20-24	Time 600	

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.



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## Project Information

## Chain of Custody

Client: Devon Energy	<b>Bill To</b> Attention: Dale Woodall Address: 205 E Bender Rd #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: Dale.woodall@dm.com	<b>Lab Use Only</b>				<b>TAT</b>				<b>EPA Program</b>	
Project: Mizar 11 Fed Com 1H		Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		E 401120	010580007						X		
Address: 3122 National Parks Hwy		<b>Analysis and Method</b>									
City, State, Zip: Carlsbad NM, 88220											
Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					
Email: agiovengo@ensolum.com											
Report due by:											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	GDOC TX	Remarks
12:12	1/18/2024	Soil	1	SW02 - 0-1'	21								X		
8:58	1/18/2024	Soil	1	PH04 - 1'	22								X		
9:00	1/18/2024	Soil	1	PH04 - 2'	23								X		
8:56	1/18/2024	Soil	1	PH04 - 3'	24								X		
8:53	1/18/2024	Soil	1	PH04 - 4'	25								X		
8:50	1/18/2024	Soil	1	PH04 - 5'	26								X		
9:23	1/18/2024	Soil	1	PH04 - 6'	27								X		
9:33	1/18/2024	Soil	1	PH04 - 7'	28								X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dm.com, chamilton@ensolum.com, ehaft@ensolum.com - KEPT ON ICE

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

Sampled by: Ethan Hatt

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

Relinquished by: (Signature) <i>Ethan Hatt</i>	Date 1/19/24	Time 0730	Received by: (Signature) <i>Michelle Gough</i>	Date 1-19-24	Time 0730	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gough</i>	Date 1-19-24	Time 1520	Received by: (Signature) <i>Andrew</i>	Date 1-19-24	Time 1630	
Relinquished by: (Signature) <i>Andrew</i>	Date 1-19-24	Time 2300	Received by: (Signature) <i>Alvin</i>	Date 1-20-24	Time 600	

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.



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## Envirotech Analytical Laboratory

Printed: 1/22/2024 2:07:02PM

## 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:	01/20/24 06:00	Work Order ID:	E401120
Phone:	(505) 382-1211	Date Logged In:	01/19/24 17:12	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	01/26/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Mizar 11 Fed Com 1H

Work Order: E401121

Job Number: 01058-0007

Received: 1/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/25/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/25/24

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: Mizar 11 Fed Com 1H  
Workorder: E401121  
Date Received: 1/20/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/20/2024 6:00:00AM, under the Project Name: Mizar 11 Fed Com 1H.

The analytical test results summarized in this report with the Project Name: Mizar 11 Fed Com 1H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
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Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
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**Michelle Golzaes**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/25/24 13:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-1'	E401121-01A	Soil	01/17/24	01/20/24	Glass Jar, 2 oz.
FS21-1'	E401121-02A	Soil	01/17/24	01/20/24	Glass Jar, 2 oz.
FS22-1'	E401121-03A	Soil	01/17/24	01/20/24	Glass Jar, 2 oz.
FS23-1'	E401121-04A	Soil	01/17/24	01/20/24	Glass Jar, 2 oz.
FS24-1'	E401121-05A	Soil	01/17/24	01/20/24	Glass Jar, 2 oz.
FS25-1'	E401121-06A	Soil	01/17/24	01/20/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/25/2024 1:41:33PM
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FS01-1'

E401121-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404015	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/22/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/24	01/23/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		01/22/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404010	
Chloride	273	20.0	1	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/25/2024 1:41:33PM
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FS21-1'

E401121-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.9 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404015	
Diesel Range Organics (C10-C28)	176	25.0	1	01/22/24	01/23/24	
Oil Range Organics (C28-C36)	158	50.0	1	01/22/24	01/23/24	
Surrogate: n-Nonane	101 %	50-200		01/22/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404010	
Chloride	190	20.0	1	01/22/24	01/22/24	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/25/2024 1:41:33PM
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FS22-1'

E401121-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	94.3 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.4 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404015	
Diesel Range Organics (C10-C28)	110	25.0	1	01/22/24	01/23/24	
Oil Range Organics (C28-C36)	99.5	50.0	1	01/22/24	01/23/24	
Surrogate: n-Nonane	96.0 %	50-200		01/22/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404010	
Chloride	674	20.0	1	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/25/2024 1:41:33PM
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FS23-1'

E401121-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.9 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404015	
Diesel Range Organics (C10-C28)	46.1	25.0	1	01/22/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/24	01/23/24	
Surrogate: n-Nonane	102 %	50-200		01/22/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404010	
Chloride	544	20.0	1	01/22/24	01/23/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/25/2024 1:41:33PM
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FS24-1'

E401121-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	93.4 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404015	
Diesel Range Organics (C10-C28)	52.5	25.0	1	01/22/24	01/23/24	
Oil Range Organics (C28-C36)	57.0	50.0	1	01/22/24	01/23/24	
Surrogate: n-Nonane	107 %	50-200		01/22/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404010	
Chloride	948	20.0	1	01/22/24	01/23/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/25/2024 1:41:33PM
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FS25-1'

E401121-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Benzene	ND	0.0250	1	01/22/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/23/24	
Toluene	ND	0.0250	1	01/22/24	01/23/24	
o-Xylene	ND	0.0250	1	01/22/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	91.8 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2404005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		01/22/24	01/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2404015	
Diesel Range Organics (C10-C28)	25.5	25.0	1	01/22/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/22/24	01/23/24	
Surrogate: n-Nonane	103 %	50-200		01/22/24	01/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2404010	
Chloride	1460	20.0	1	01/22/24	01/23/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/25/2024 1:41:33PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2404005-BLK1) Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

LCS (2404005-BS1) Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	4.82	0.0250	5.00		96.4	70-130			
Ethylbenzene	4.64	0.0250	5.00		92.7	70-130			
Toluene	4.82	0.0250	5.00		96.4	70-130			
o-Xylene	4.78	0.0250	5.00		95.7	70-130			
p,m-Xylene	9.59	0.0500	10.0		95.9	70-130			
Total Xylenes	14.4	0.0250	15.0		95.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			

Matrix Spike (2404005-MS1) Source: E401120-28 Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	5.00	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.81	0.0250	5.00	ND	96.2	61-133			
Toluene	5.00	0.0250	5.00	ND	99.9	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2404005-MSD1) Source: E401120-28 Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	5.12	0.0250	5.00	ND	102	54-133	2.38	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.5	61-133	2.43	20	
Toluene	5.12	0.0250	5.00	ND	102	61-130	2.42	20	
o-Xylene	5.07	0.0250	5.00	ND	101	63-131	2.29	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	2.50	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	2.43	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/25/2024 1:41:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404005-BLK1) Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.8	70-130			

LCS (2404005-BS2) Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		88.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike (2404005-MS2) Source: E401120-28 Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			

Matrix Spike Dup (2404005-MSD2) Source: E401120-28 Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130	8.72	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/25/2024 1:41:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404015-BLK1)	Prepared: 01/22/24 Analyzed: 01/23/24								
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			

LCS (2404015-BS1)	Prepared: 01/22/24 Analyzed: 01/23/24								
Diesel Range Organics (C10-C28)	241	25.0	250		96.5	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			

Matrix Spike (2404015-MS1)				Source: E401124-03	Prepared: 01/22/24 Analyzed: 01/23/24				
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.7	38-132			
Surrogate: n-Nonane	48.9		50.0		97.8	50-200			

Matrix Spike Dup (2404015-MSD1)				Source: E401124-03	Prepared: 01/22/24 Analyzed: 01/23/24				
Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132	8.66	20	
Surrogate: n-Nonane	52.2		50.0		104	50-200			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/25/2024 1:41:33PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2404010-BLK1)					Prepared: 01/22/24 Analyzed: 01/22/24				
Chloride	ND	20.0							
LCS (2404010-BS1)					Prepared: 01/22/24 Analyzed: 01/22/24				
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2404010-MS1)					Source: E401119-06		Prepared: 01/22/24 Analyzed: 01/22/24		
Chloride	250	20.0	250	ND	100	80-120			
Matrix Spike Dup (2404010-MSD1)					Source: E401119-06		Prepared: 01/22/24 Analyzed: 01/22/24		
Chloride	251	20.0	250	ND	100	80-120	0.343	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:	Mizar 11 Fed Com 1H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/25/24 13:41

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

Client: Devon Energy		Bill To		Lab Use Only		TAT		EPA Program			
Project: Mizar 11 Fed Com 1H		Attention: Dale Woodall		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 205 E Bender Rd #150		E 401121		010580007		X			
Address: 3122 National Parks Hwy		City, State, Zip: Hobbs NM, 88240		Analysis and Method						RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (575)748-1838								State	
Phone: 575-988-0055		Email: Dale.woodall@dvn.com								NM CO UT AZ TX	
Email: agiovengo@ensolum.com										x	
Report due by:										Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	GDOC TX	Remarks
12:48	1/17/2024	Soil	1	FS01 - 1'	1						X		
13:10	1/17/2024	Soil	1	FS21 - 1'	2						X		
13:07	1/17/2024	Soil	1	FS22 - 1'	3						X		
13:06	1/17/2024	Soil	1	FS23 - 1'	4						X		
13:05	1/17/2024	Soil	1	FS24 - 1'	5						X		
13:00	1/17/2024	Soil	1	FS25 - 1'	6						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, ehaf@ensolum.com - KEPT ON ICE

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.			
Sampled by: Ethan Haft							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
<i>Ethan Haft</i>	1/18/24	0700	<i>Michelle Gayle</i>	1-18-24	0700	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3	
<i>Michelle Gayle</i>	1-19-24	1520	<i>Andrew Moss</i>	1-19-24	1630		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C	
<i>Andrew Moss</i>	1-19-24	2300	<i>Alvin</i>	1-20-24	1600	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 Analytical Laboratory

Printed: 1/22/2024 1:55:10PM

## 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:	01/20/24 06:00	Work Order ID:	E401121
Phone:	(505) 382-1211	Date Logged In:	01/20/24 06:08	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	01/25/24 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Mizar 11 Fed Com 1H

Work Order: E402046

Job Number: 01058-0007

Received: 2/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/7/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/7/24

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: Mizar 11 Fed Com 1H  
Workorder: E402046  
Date Received: 2/3/2024 2:50:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/3/2024 2:50:00PM, under the Project Name: Mizar 11 Fed Com 1H.

The analytical test results summarized in this report with the Project Name: Mizar 11 Fed Com 1H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Golzaes**  
Client Representative  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:  02/07/24 16:17
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
PH04-8'	E402046-01A	Soil	02/02/24	02/03/24	Glass Jar, 2 oz.
PH04-9'	E402046-02A	Soil	02/02/24	02/03/24	Glass Jar, 2 oz.
PH04-10'	E402046-03A	Soil	02/02/24	02/03/24	Glass Jar, 2 oz.
PH04-11'	E402046-04A	Soil	02/02/24	02/03/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/7/2024 4:17:24PM
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PH04-8'

E402046-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2405155	
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	0.0324	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
Surrogate: 4-Bromochlorobenzene-PID	95.8 %	70-130		02/02/24	02/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2405155	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.4 %	70-130		02/02/24	02/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2406042	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/07/24	
Surrogate: n-Nonane	76.4 %	50-200		02/06/24	02/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2406021	
Chloride	79.9	20.0	1	02/05/24	02/06/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/7/2024 4:17:24PM
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PH04-9'

E402046-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2405155	
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		02/02/24	02/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2405155	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		02/02/24	02/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2406042	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/07/24	
Surrogate: n-Nonane	80.8 %	50-200		02/06/24	02/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2406021	
Chloride	73.7	20.0	1	02/05/24	02/06/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Mizar 11 Fed Com 1H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 2/7/2024 4:17:24PM
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PH04-10'

E402046-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2405155	
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: 4-Bromochlorobenzene-PID	94.4 %	70-130		02/02/24	02/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2405155	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		02/02/24	02/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2406042	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/07/24	
Surrogate: n-Nonane	74.4 %	50-200		02/06/24	02/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2406021	
Chloride	77.4	20.0	1	02/05/24	02/06/24	



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
2/7/2024 4:17:24PM

PH04-11'

E402046-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405155
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		02/02/24	02/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405155
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		02/02/24	02/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406042
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/07/24	
<i>Surrogate: n-Nonane</i>						
	78.4 %	50-200		02/06/24	02/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406021
Chloride	89.1	20.0	1	02/05/24	02/06/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/7/2024 4:17:24PM

Volatile Organics by EPA 8021B

Analyst: RAS

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

Blank (2405155-BLK1)

Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.4	70-130			

LCS (2405155-BS1)

Prepared: 02/02/24 Analyzed: 02/05/24

Benzene	4.86	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.82	0.0250	5.00		96.3	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
p,m-Xylene	9.71	0.0500	10.0		97.1	70-130			
Total Xylenes	14.5	0.0250	15.0		96.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			

LCS Dup (2405155-BSD1)

Prepared: 02/02/24 Analyzed: 02/05/24

Benzene	4.73	0.0250	5.00		94.6	70-130	2.69	20	
Ethylbenzene	4.69	0.0250	5.00		93.8	70-130	2.62	20	
Toluene	4.70	0.0250	5.00		94.0	70-130	2.74	20	
o-Xylene	4.65	0.0250	5.00		93.1	70-130	2.69	20	
p,m-Xylene	9.48	0.0500	10.0		94.8	70-130	2.41	20	
Total Xylenes	14.1	0.0250	15.0		94.2	70-130	2.50	20	
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/7/2024 4:17:24PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2405155-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			

LCS (2405155-BS2) Prepared: 02/02/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

LCS Dup (2405155-BSD2) Prepared: 02/02/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0		97.7	70-130	5.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/7/2024 4:17:24PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2406042-BLK1)					Prepared: 02/06/24 Analyzed: 02/06/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.1		50.0		78.2	50-200			

LCS (2406042-BS1)					Prepared: 02/06/24 Analyzed: 02/06/24				
Diesel Range Organics (C10-C28)	235	25.0	250		94.1	38-132			
Surrogate: n-Nonane	38.6		50.0		77.2	50-200			

Matrix Spike (2406042-MS1)					Source: E402026-03		Prepared: 02/06/24 Analyzed: 02/06/24		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.5	38-132			
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			

Matrix Spike Dup (2406042-MSD1)					Source: E402026-03		Prepared: 02/06/24 Analyzed: 02/06/24		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	2.06	20	
Surrogate: n-Nonane	41.4		50.0		82.8	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/7/2024 4:17:24PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2406021-BLK1)					Prepared: 02/05/24 Analyzed: 02/06/24				
Chloride	ND	20.0							
LCS (2406021-BS1)					Prepared: 02/05/24 Analyzed: 02/06/24				
Chloride	256	20.0	250		102	90-110			
LCS Dup (2406021-BSD1)					Prepared: 02/05/24 Analyzed: 02/06/24				
Chloride	255	20.0	250		102	90-110	0.176	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:	Mizar 11 Fed Com 1H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/07/24 16:17

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



Client: Devon Energy					Bill To		Lab Use Only						TAT				EPA Program		
Project: Mizar 11 Fed Com 1H							Lab WO#	Job Number					1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Gioveno							E402046010580007									X			
Address: 3122 National Parks Hwy							Analysis and Method												
City, State, Zip: Carlsbad NM, 88220							TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				BGDOC NM		GDOC TX	RCRA	
Phone: 575-988-0055					Address: 205 E Bender Rd #150								State						
Email: agioveno@ensolum.com					City, State, Zip: Hobbs NM, 88240								NM CO UT AZ TX						
Report due by:					Phone: (575)748-1838								X						
					Email: Dale.woodall@dvn.com														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
9:08	2/2/2024	Soil	1	PH04 - 8'	1														
9:12	2/2/2024	Soil	1	PH04 - 9'	2														
9:16	2/2/2024	Soil	1	PH04 - 10'	3														
9:24	2/2/2024	Soil	1	PH04 - 11'	4														
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, ehafft@ensolum.com - KEPT ON ICE																			
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	Lab Use Only											
		02/02/24	0700			2-2-24	0700	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
		2-3-24	1400			2/3/24	1450												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
								4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



## Envirotech Analytical Laboratory

Printed: 2/4/2024 3:49:53PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	02/03/24 14:50	Work Order ID:	E402046
Phone:	(505) 382-1211	Date Logged In:	02/02/24 17:41	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	02/09/24 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: Courier**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: Mizar 11 Fed Com 1H

Work Order: E402047

Job Number: 01058-0007

Received: 2/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/8/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/8/24

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: Mizar 11 Fed Com 1H  
Workorder: E402047  
Date Received: 2/3/2024 2:50:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/3/2024 2:50:00PM, under the Project Name: Mizar 11 Fed Com 1H.

The analytical test results summarized in this report with the Project Name: Mizar 11 Fed Com 1H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/08/24 13:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS26-0.5'	E402047-01A	Soil	02/02/24	02/03/24	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Mizar 11 Fed Com 1H  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
2/8/2024 1:30:33PM

FS26-0.5'

E402047-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406025	
Benzene	ND	0.0250	1	02/05/24	02/07/24	
Ethylbenzene	ND	0.0250	1	02/05/24	02/07/24	
Toluene	ND	0.0250	1	02/05/24	02/07/24	
o-Xylene	ND	0.0250	1	02/05/24	02/07/24	
p,m-Xylene	ND	0.0500	1	02/05/24	02/07/24	
Total Xylenes	ND	0.0250	1	02/05/24	02/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		02/05/24	02/07/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/24	02/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		02/05/24	02/07/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406042	
Diesel Range Organics (C10-C28)	1060	125	5	02/06/24	02/07/24	
Oil Range Organics (C28-C36)	551	250	5	02/06/24	02/07/24	
<i>Surrogate: n-Nonane</i>						
	76.6 %	50-200		02/06/24	02/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406017	
Chloride	14800	200	10	02/05/24	02/06/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/8/2024 1:30:33PM

Volatile Organics by EPA 8021B

Analyst: EG

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 (2406025-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.7	70-130			

LCS (2406025-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Benzene	4.95	0.0250	5.00		99.0	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130			
Toluene	4.94	0.0250	5.00		98.7	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.94	0.0500	10.0		99.4	70-130			
Total Xylenes	14.8	0.0250	15.0		98.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike (2406025-MS1) Source: E402049-23 Prepared: 02/05/24 Analyzed: 02/06/24

Benzene	4.90	0.0250	5.00	ND	98.0	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	61-133			
Toluene	4.91	0.0250	5.00	ND	98.2	61-130			
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131			
p,m-Xylene	9.93	0.0500	10.0	ND	99.3	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

Matrix Spike Dup (2406025-MSD1) Source: E402049-23 Prepared: 02/05/24 Analyzed: 02/05/24

Benzene	5.28	0.0250	5.00	ND	106	54-133	7.49	20	
Ethylbenzene	5.26	0.0250	5.00	ND	105	61-133	6.48	20	
Toluene	5.26	0.0250	5.00	ND	105	61-130	6.79	20	
o-Xylene	5.21	0.0250	5.00	ND	104	63-131	6.41	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	6.36	20	
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131	6.38	20	
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/8/2024 1:30:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

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 (2406025-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

LCS (2406025-BS2) Prepared: 02/05/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike (2406025-MS2) Source: E402049-23 Prepared: 02/05/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike Dup (2406025-MSD2) Source: E402049-23 Prepared: 02/05/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	1.14	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/8/2024 1:30:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2406042-BLK1)					Prepared: 02/06/24 Analyzed: 02/06/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.1		50.0		78.2	50-200			

LCS (2406042-BS1)					Prepared: 02/06/24 Analyzed: 02/06/24				
Diesel Range Organics (C10-C28)	235	25.0	250		94.1	38-132			
Surrogate: n-Nonane	38.6		50.0		77.2	50-200			

Matrix Spike (2406042-MS1)					Source: E402026-03		Prepared: 02/06/24 Analyzed: 02/06/24		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.5	38-132			
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			

Matrix Spike Dup (2406042-MSD1)					Source: E402026-03		Prepared: 02/06/24 Analyzed: 02/06/24		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	2.06	20	
Surrogate: n-Nonane	41.4		50.0		82.8	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Mizar 11 Fed Com 1H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/8/2024 1:30:33PM

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 (2406017-BLK1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2406017-BS1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Chloride	251	20.0	250		100	90-110			
LCS Dup (2406017-BSD1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Chloride	251	20.0	250		100	90-110	0.00878	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:	Mizar 11 Fed Com 1H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/08/24 13:30

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

[illegible]

## Envirotech Analytical Laboratory

Printed: 2/4/2024 3:54:37PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	02/03/24 14:50	Work Order ID:	E402047
Phone:	(505) 382-1211	Date Logged In:	02/02/24 17:45	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	02/09/24 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: Courier**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.



## APPENDIX F

### Email Correspondence

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**From:** [Ashley Giovengo](#)  
**To:** [Ethan Haft](#)  
**Subject:** FW: [EXTERNAL] RE: Extension Request - Devon Energy - Mizer 11 Fed Com 1 - Incident Number nAPP2327624998  
**Date:** Thursday, February 15, 2024 1:53:18 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[Outlook-kcvlhfly.png](#)

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**Ashley Giovengo**

Senior Scientist

575-988-0055

**Ensolum, LLC**

in f

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**From:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Sent:** Friday, January 5, 2024 9:26 AM  
**To:** Ashley Giovengo <agiovengo@ensolum.com>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Woodall, Dale <dale.woodall@dmv.com>; Cole Burton <cburton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>  
**Subject:** Re: [EXTERNAL] RE: Extension Request - Devon Energy - Mizer 11 Fed Com 1 - Incident Number nAPP2327624998

You don't often get email from [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov). [Learn why this is important](#)

**[\*\*EXTERNAL EMAIL\*\*]**

Good morning Ashley,

My apology for not responding to you in a timely fashion. I've approved the time extension to have a remediation due date of April 1, 2024 on January 3, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

**Nelson Velez** • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)

<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>

**Sent:** Friday, January 5, 2024 9:06 AM

**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>

**Cc:** Woodall, Dale <[dale.woodall@dyn.com](mailto:dale.woodall@dyn.com)>; Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Ethan Haft <[ehaft@ensolum.com](mailto:ehaft@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>

**Subject:** [EXTERNAL] RE: Extension Request - Devon Energy - Mizer 11 Fed Com 1 - Incident Number nAPP2327624998

**CAUTION:** This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Please see the corrected extension deadline below.

All,

Devon Energy Production Company (Devon) is requesting an extension for the current deadline of December 31, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Mizer 11 Fed Com 1 (Incident Number nAPP2327624998). The release occurred on October 02, 2023, and initial site assessment and delineation activities have been completed. In order to determine depth to water at the Site, Devon will contract a licensed well driller to complete a depth to water boring within the next 90 days. The well log and file will be submitted to the New Mexico Office of the State Engineer (NMOSE) and included in the remediation work plan or closure report. Devon will submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Devon respectfully requests an extension until March 31, 2024.

Thanks,



**Ashley Giovengo**

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

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**From:** Ashley Giovengo

**Sent:** Friday, December 29, 2023 2:21 PM

**To:** Enviro, OCD, EMNRD <[ocd.enviro@emnrd.nm.gov](mailto:ocd.enviro@emnrd.nm.gov)>; Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>

**Cc:** Woodall, Dale <[dale.woodall@dmv.com](mailto:dale.woodall@dmv.com)>; Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Ethan Haft <[ehaft@ensolum.com](mailto:ehaft@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>

**Subject:** Extension Request - Devon Energy - Mizer 11 Fed Com 1 - Incident Number nAPP2327624998

All,

Devon Energy Production Company (Devon) is requesting an extension for the current deadline of December 31, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Mizer 11 Fed Com 1 (Incident Number nAPP2327624998). The release occurred on October 02, 2023, and initial site assessment and delineation activities have been completed. In order to determine depth to water at the Site, Devon will contract a licensed well driller to complete a depth to water boring within the next 90 days. The well log and file will be submitted to the New Mexico Office of the State Engineer (NMOSE) and included in the remediation work plan or closure report. Devon will submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Devon respectfully requests an extension until March 31, 2023.

Thanks,



**Ashley Giovengo**

Senior Engineer

575-988-0055

Ensolum, LLC

in f 



**Chad Hamilton**

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**From:** Ashley Giovengo  
**Sent:** Thursday, March 28, 2024 7:59 AM  
**To:** Chad Hamilton  
**Subject:** FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 309513

**Ashley Giovengo**

Senior Scientist  
575-988-0055  
Ensolum, LLC  
in f t

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**From:** Woodall, Dale <Dale.Woodall@dvn.com>  
**Sent:** Tuesday, January 30, 2024 1:15 PM  
**To:** Ashley Giovengo <agiovengo@ensolum.com>  
**Subject:** FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 309513

[ \*\*EXTERNAL EMAIL\*\* ]

Dale Woodall  
*Environmental Professional*  
*Hobbs, NM*  
*Office: 575-748-1838*  
*Mobile: 405-318-4697*  
[Dale.Woodall@dvn.com](mailto:Dale.Woodall@dvn.com)

---

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>  
**Sent:** Tuesday, January 30, 2024 1:13 PM  
**To:** Woodall, Dale <[Dale.Woodall@dvn.com](mailto:Dale.Woodall@dvn.com)>  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 309513

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2327624998.

The sampling event is expected to take place:

**When:** 02/02/2024 @ 09:00

**Where:** D-11-19S-31E 275 FNL 50 FWL (32.68153,-103.8485107)

**Additional Information:** Ashley Giovengo  
Senior Engineer  
575-988-0055  
Ensolum, LLC

**Additional Instructions:** 32.68153° N, -103.8485107° W

D-11-19S-31E

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

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

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

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

QUESTIONS  
  
Action 331906

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331906
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327624998
Incident Name	NAPP2327624998 MIZAR 11 FED COM 1H @ 30-015-41964
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-015-41964] MIZAR 11 FED COM #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MIZAR 11 FED COM 1H
Date Release Discovered	10/02/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Pipeline (Any)   Crude Oil   Released: 7 BBL   Recovered: 5 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	a PINHOLE WAS FOUND ON TUBING BY THE WELLHEAD THAT CAUSED FLUID TO FLOW ONTO THE GROUND. THE SPILL WAS ISOLATED, TUBING CLOSED, CLOSED THE CASING AND BOP RAMS. SPILL WAS ON THE GROUND AND NOT IN A LINED CONTAINMENT. SPILL DID NOT GO OFFSITE.

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

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

**District IV**

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

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

QUESTIONS, Page 2

Action 331906

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number: 331906
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 04/10/2024
--	--

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QUESTIONS, Page 3

Action 331906

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331906
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	14800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1611
GRO+DRO (EPA SW-846 Method 8015M)	1060
BTEX (EPA SW-846 Method 8021B or 8260B)	2472
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	01/17/2024
On what date will (or did) the final sampling or liner inspection occur	02/02/2024
On what date will (or was) the remediation complete(d)	02/02/2024
What is the estimated surface area (in square feet) that will be reclaimed	700
What is the estimated volume (in cubic yards) that will be reclaimed	285
What is the estimated surface area (in square feet) that will be remediated	4763
What is the estimated volume (in cubic yards) that will be remediated	216

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 331906

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	331906
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 04/10/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 331906

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	331906
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Pumpjack, wellhead, and Process piping
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	700
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	285
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-41964 MIZAR 11 FED COM #001H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 04/10/2024



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Action 331906

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331906
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	309513
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/02/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

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

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CONDITIONS

Action 331906

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331906
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Deferral Request Approved. This deferral request indicates the impacted soil remaining in place is laterally defined by excavation floor sample FS26 and sidewall soil sampl SW02 and is vertically defined by pothole sample PH04 at 11 feet bgs at the southern edge of the deferral rea. The estimated area of remaining impacted soil measures an area of approximately 700 square feet, and a total of approximately 285 cubic yards of impacted oil remained in place, assuming a depth of 11 feet bgs based on laboratory analytical results, until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	5/2/2024
crystal.walker	Upon Remediation of the location Per 19.15.29.13.D.1 The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA method 300.0, or other test methods approved by the division.	5/2/2024