

NORTH THISTLE 15 CTB 2

nAPP2335632633

12/21/2023

| Spills In Lined Containment | |
|---|-------|
| Measurements Of Standing Fluid | |
| Length(Ft) | 120 |
| Width(Ft) | 30 |
| Depth(in.) | 1 |
| tank displacements (bbls) | 53.43 |
| No. of 500 bbl Tanks In Standing Fluid | 8 |
| No. of Other Tanks In Standing Fluid | 0 |
| OD Of Other Tanks In Standing Fluid(feet) | |
| Total Volume of standing fluid accounting for tank displacement. | 31.04 |



March 6, 2024

New Mexico Energy Minerals and Natural Resources Department

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

**Re: Closure Request
North Thistle 15 CTB 2
Incident Number nAPP2335632633
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company (Devon), has prepared this *Closure Request* to document assessment and soil sampling activities at the North Thistle 15 CTB 2 (Site) in Unit M, Section 15, Township 23 South, Range 33 East, in Lea County, New Mexico (Figure 1). The Site (32.29849° N, 103.56582° W) is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Devon is submitting this *Closure Request*, describing Site assessment and delineation activities that have occurred and requesting and requesting closure for Incident Number nAPP2335632633.

BACKGROUND

On December 21, 2023, a water dump valve hung open on the 3H separator, which caused an increase in pressure at the gun barrel, resulting in the release of approximately 31 barrels (bbls) of crude oil into the lined tank battery containment. Two areas on-pad were lightly misted when fluids exited the thief hatch of the gun barrel and hit the containment floor. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 30 bbls of released crude oil were recovered from within the lined containment. A 48-hour advance notice of liner inspection was provided via web portal to the New Mexico Oil Conservation Division (NMOCD) Office. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery. Upon inspection, the liner was determined to be insufficient. Devon reported the release to the NMOCD via email on December 22, 2023, and submitted a Release Notification Form C-141 (Form C-141) on December 27, 2023, and subsequently the release was assigned Incident Number nAPP2335632633.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 04664 POD1, located approximately 461 feet northeast of the Site. The well is a soil boring used to determine depth to groundwater and had a reported depth to groundwater greater than 55 feet below ground surface (bgs) and a total depth of 55 feet bgs. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 0.82 miles northeast 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 potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On January 11, 2024, Ensolum personnel visited the Site to evaluate the release extent and conducted Site assessment activities. Four lateral assessment soil samples (SS01 through SS04) were collected around the documented release extent at ground surface. The soil samples were field screened for TPH utilizing a PetroFLAG® Soil Analyzer System and for chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted in Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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

Lateral delineation soil sample SS01, located outside of the lined containment in the misted area, exceed the Site Closure Criteria and the strictest criteria per NMOCD Table I at ground surface, indicating excavation of the misted would be required. Two additional lateral delineation soil samples (SS01A and

Devon Energy Production Company
Closure Request
North Thistle 15 CTB 2



SS01B) were collected at ground surface to verify the lateral extent of the misted area on the west side of the lined containment.

On February 1, 2024, Ensolum personnel returned to the Site to conduct a liner inspection. During the inspection the liner was found to be insufficient and as such it was determined further delineation was necessary.

DELINEATION ACTIVITIES

Ensolum returned to the Site on February 7, 2024, to conduct delineation activities to assess for the presence or absence of impacts to soil beneath the containment. Since the release remained on pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

The liner was found insufficient during the February 2024 inspection and as such, three boreholes, (BH01 through BH03), were advanced in the vicinity of the three holes identified in the containment liner. The boreholes were advanced via hand auger to a terminal depth of 1-foot bgs, and field screened for TPH and chlorides at ground surface and 1-foot bgs. Lateral delineation soil sample SS01 was advanced via hand auger to a depth of 1-foot bgs. The soil samples were handled and analyzed as previously described. Field screening results and observations from the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected at ground surface and from 1-foot bgs from boreholes BH01 through BH03 and submitted for laboratory analysis.

EXCAVATION ACTIVITIES

Beginning on February 19, 2024, Ensolum personnel oversaw the excavation of impacted soil from the misted areas on the west and south sides of the lined secondary containment. Excavation activities were performed via backhoe to depths ranging from ground surface to 0.5 feet bgs. To direct excavation activities, soil was field screened for TPH and chloride as previously described.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS013) were collected from the floor of the excavation at depths ranging from surface level to 0.5 feet bgs. Sidewalls were included in composite soil samples (FS01 through FS13) due to the shallow nature of the excavation in these areas. The soil samples were handled and analyzed as previously described. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

A total of approximately 20 cubic yards of soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico.

The release remained on the well pad that is currently in operation for oil and gas production purposes. As such, the release area is not expected to be reclaimed until the oil and gas well is plugged and abandoned (P&A'd) and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 NMAC.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples (SS01 through SS04), collected around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria except for SS01 at ground surface. Two additional lateral delineation soil samples (SS01A and SS01B) were collected at ground surface to verify the lateral extent of the misted area on the west side of the lined containment, and both were in compliance with the strictest Closure Criteria. Lateral delineation soil sample SS01, which was advanced to a depth of 1-foot bgs, was found to be in compliance with the strictest Closure Criteria verifying the vertical extent of the misted area. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH01 through BH03 indicated concentrations of all COCs in soil were in compliance with the Site Closure Criteria at ground surface to 1-foot bgs.

Laboratory analytical results for the excavation floor soil samples (FS01 through FS13), collected at depths ranging from ground surface to 0.5 feet bgs in the scrapped areas on the west and south sides of the lined secondary containment, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 2 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Following the liner integrity inspection at the Site, vertical delineation sampling to the strictest Closure Criteria per NMOCD Table I was conducted beneath the lined secondary containment. Laboratory analytical results from boreholes (BH01 through BH03) indicated impacts to soil located directly beneath the containment liner were minimal and below the Site Closure Criteria. The misted areas on the west and south sides of the lined secondary containment have been laterally defined by delineation soil samples SS01A, SS01B, SS01 SS04 and SS04A at ground surface and vertically by delineation soil sample SS01-1'. Excavation of the misted areas was completed, and excavation floor samples (FS01 through FS13) collected at depths ranging from ground surface to 0.5 ft bgs are all in compliance with the Site Closure Criteria. Based on initial response efforts, and a reported depth to groundwater greater than 55 feet bgs, Devon believes actions taken to address the December 2024 have been protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2335632633.

Devon Energy Production Company
Closure Request
North Thistle 15 CTB 2



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

Sincerely,
Ensolum, LLC

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

Ashley Giovengo
Senior Engineer

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

Daniel R. Moir, PG
Senior Managing Geologist

cc: Dale Woodall, Devon
New Mexico State Land Office

Appendices:

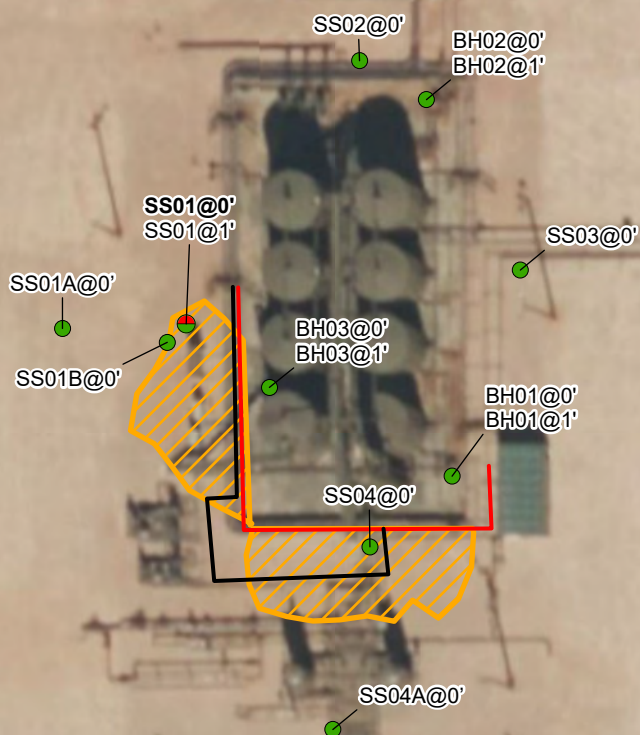
| | |
|------------|--|
| Figure 1 | Site Receptor Map |
| Figure 2 | Delineation Soil Sample Locations |
| Figure 3 | Excavation Soil Sample Locations |
| Figure 4 | Area of Requested Deferral |
| Table 1 | Soil Sample Analytical Results |
| Appendix A | Form C-141 |
| Appendix B | Reference Wells |
| Appendix C | Photographic Log |
| Appendix D | Lithographic Soil Sampling Logs |
| Appendix E | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix F | Email Correspondence |



FIGURES

Legend

- Delineation Soil Sample
Compliant with Site
Closure Criteria
- Delineation Soil Sample
Formerly Not Compliant
with Site Closure Criteria
- Electrical Line
- Pipeline
- Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface
 Concentrations in **bold** exceed the NMOCD Table I Closure
 Criteria or reclamation standard where applicable.

0 50 100
 Feet

Source:
 Bing Maps



Delineation Soil Sample Locations

Devon Energy Production Company

North Thistle 15 CTB 2

Incident Number: nAPP2335632633

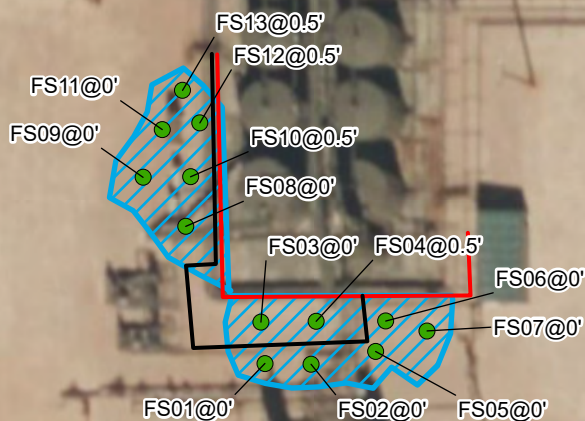
Unit M, Section 15, Township 23S, Range 33E
 Lea County, New Mexico

FIGURE

2

Legend

- Confirmation Soil Sample
Compliant with Site
Closure Criteria
- Electrical Line
- Pipeline
- ▨ Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface

0 50 100
Feet

Source:
Bing Maps



Confirmation Soil Sample Locations

Devon Energy Production Company

North Thistle 15 CTB 2

Incident Number: nAPP2335632633

Unit M, Section 15, Township 23S, Range 33E
Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 North Thistle 15 CTB 2
 Devon Energy
 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) |
|--|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| Delineation Soil Samples | | | | | | | | | | |
| SS01 | 1/11/2024 | 0 | <0.0250 | <0.0250 | <20.0 | 3,780 | 1,690 | 3,780 | 5,470 | 208 |
| SS01 | 2/19/2024 | 1 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 23.1 |
| SS01A | 2/7/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | <20.0 |
| SS01B | 2/23/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 71.3 |
| SS02 | 1/11/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 109 |
| SS03 | 1/11/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 48.0 |
| SS04 | 1/11/2024 | 0 | <0.0250 | <0.0250 | <20.0 | 34.0 | <50.0 | 34.0 | 34.0 | <20.0 |
| SS04A | 2/7/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | <20.0 |
| BH01 | 2/7/2024 | 0 | <0.0250 | <0.0250 | <20.0 | 35.0 | <50.0 | 35.0 | 35.0 | 285 |
| BH01 | 2/7/2024 | 1 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 55.1 |
| BH02 | 2/7/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 527 |
| BH02 | 2/7/2024 | 1 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 61.6 |
| BH03 | 2/7/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 1,040 |
| BH03 | 2/7/2024 | 1 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 212 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 North Thistle 15 CTB 2
 Devon Energy
 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) |
|--|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| Excavation Floor Soil Samples | | | | | | | | | | |
| FS01 | 2/23/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | <20.0 |
| FS02 | 2/19/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 39.3 |
| FS03 | 2/19/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 27.6 |
| FS04 | 2/19/2024 | 0.5 | <0.0250 | <0.0250 | <20.0 | <25.0 | 64.0 | 194 | 258.0 | 76.8 |
| FS05 | 2/23/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | <20.0 |
| FS06 | 2/23/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | <20.0 |
| FS07 | 2/23/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | <20.0 |
| FS08 | 2/23/2024 | 0 | 0.0828 | 1.12 | <20.0 | 579 | 171 | 579 | 750 | 230 |
| FS09 | 2/23/2024 | 0 | <0.0250 | <0.0250 | <20.0 | 35.6 | <50.0 | 35.6 | 35.6 | 75.6 |
| FS10 | 2/23/2024 | 0.5 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 34.2 |
| FS11 | 2/23/2024 | 0 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 80.6 |
| FS12 | 2/23/2024 | 0.5 | <0.0250 | <0.0250 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 23.1 |
| FS13 | 2/23/2024 | 0.5 | <0.0250 | <0.0250 | <20.0 | 36.0 | <50.0 | 36.0 | 36 | 20.1 |

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

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | |
|---|---|---------------|--|--|--|--|---|--------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD 1 (TW-1) | | WELL TAG ID NO. n/a | | OSE FILE NO(S). C-4664 | | | |
| | WELL OWNER NAME(S) Devon Energy | | | | PHONE (OPTIONAL) 575-748-1838 | | | |
| | WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy | | | | CITY Artesia | STATE NM | ZIP 88210 | |
| | WELL LOCATION (FROM GPS) | DEGREES 32 | | MINUTES 18 | SECONDS 7.02 | * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84 | | |
| | | LATITUDE | | N | | | | |
| | LONGITUDE | | 27.99 | | W | | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW SE Sec.15 T23S R33S NMPM | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | |
| | DRILLING STARTED 9/7/2022 | | DRILLING ENDED 9/7/2022 | | DEPTH OF COMPLETED WELL (FT) 55 | BORE HOLE DEPTH (FT) ±55 | 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 | DATE STATIC MEASURED 9/13/2022 | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger | | | | | | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> | |
| | 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 | 55 | ±6.5 | 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 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

| | | |
|---------------------------|-----------------|----------------|
| FILE NO. C-04664 | POD NO. 1 | TRN NO. 732814 |
| LOCATION 23S. 33E. 1S 414 | WELL TAG ID NO. | PAGE 1 OF 2 |

| | 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 | | | | | |
| 4. HYDROGEOLOGIC LOG OF WELL | 0 | 24 | 24 | Sand, Medium/ fine grained, poorly graded, with caliche, Red | Y ✓ N | | |
| | 24 | 29 | 5 | Caliche, consolidated, with sand, White | Y ✓ N | | |
| | 29 | 34 | 5 | Sand, Medium/ fine grained, poorly graded, with caliche,Red | Y ✓ N | | |
| | 34 | 55 | 21 | Sand, Medium/ fine grained, poorly graded, Brown | Y ✓ N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
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| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 | |
| | 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 ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. <div style="text-align: right;">OSE OIT SEP 26 2022 PM 3:25</div> | | | | | | | |
| PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt | | | | | | | |
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <i>Jack Atkins</i> Jackie D. Atkins 9/16/2022 </div> | | | | | | |
| SIGNATURE OF DRILLER / PRINT SIGNEE NAME | | | | | DATE | | |

| | | | |
|-------------------------|-----------------|--|-------------|
| FOR OSE INTERNAL USE | | WR-20 WELL RECORD & LOG (Version 01/28/2022) | |
| FILE NO. C-64664 | POD NO. 1 | TRN NO. 732 814 | |
| LOCATION 235 33E 15 414 | WELL TAG ID NO. | | PAGE 2 OF 2 |

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 732814
File Nbr: C 04664
Well File Nbr: C 04664 POD1

Oct. 03, 2022

DALE WOODALL
DEVON ENERGY
6488 7 RIVERS HWY
ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 08/25/2022.

The Well Record was received in this office on 09/26/2022, stating that it had been completed on 09/07/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/25/2023.

If you have any questions, please feel free to contact us.

Sincerely,


Vanessa Clements
(575) 622-6521

drywell



APPENDIX B

Photographic Log



Photographic Log

Devon Energy Production Company

North Thistle 15 CTB 2

nAPP2335632633



Photograph 1

Date: 01/11/2024

Description: Lease Sign

View: West



Photograph 2

Date: 1/11/2024

Description: SS01 Sample Location

View: East



Photograph 3

Date: 01/11/2024

Description: SS02 Sample Location

View: South



Photograph 4

Date: 01/11/2024

Description: SS03 Sample Location

View: North

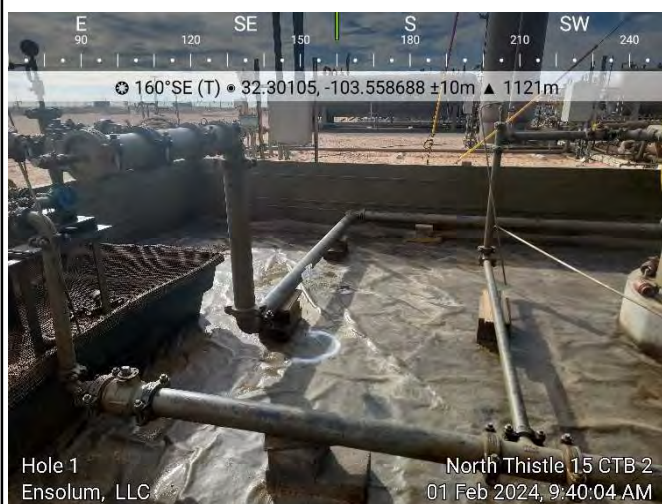


Photographic Log

Devon Energy Production Company

North Thistle 15 CTB 2

nAPP2335632633



Photograph 5

Date: 02/01/2024

Description: Liner Inspection

View: Southeast



Photograph 6

Date: 02/01/2024

Description: Liner Inspection

View: Southeast



Photograph 7

Date: 02/01/2024

Description: Liner Inspection

View: Northeast



Photograph 8

Date: 02/01/2024

Description: Liner Inspection

View: Northeast

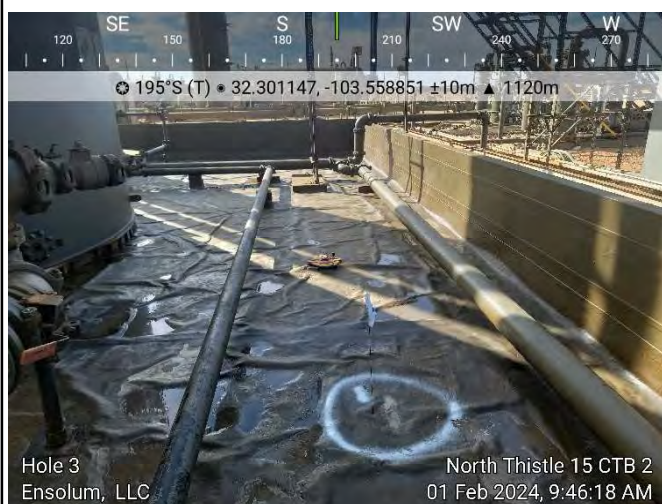


Photographic Log

Devon Energy Production Company

North Thistle 15 CTB 2

nAPP2335632633



Photograph 9

Date: 02/01/2024

Description: Liner Inspection

View: South



Photograph 10

Date: 02/01/2024

Description: Liner Inspection

View: Southwest



Photograph 11

Date: 02/07/2024

Description: Liner Delineation Sampling

View: Southwest



Photograph 12

Date: 02/07/2024

Description: Liner Delineation Sampling

View: East



Photographic Log

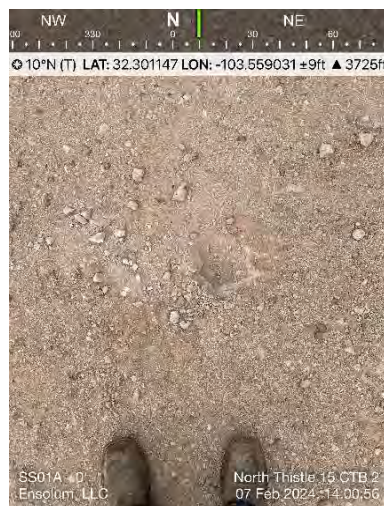
Devon Energy Production Company

North Thistle 15 CTB 2

nAPP2335632633



Photograph 13 Date: 02/07/2024
Description: Liner Delineation Sampling
View: East



Photograph 14 Date: 02/07/2024
Description: Delineation Sampling
View: North



Photograph 15 Date: 02/07/2024
Description: Delineation Sampling
View: South



Photograph 16 Date: 02/19/2024
Description: Site Signage
View: Northwest



Photographic Log

Devon Energy Production Company

North Thistle 15 CTB 2

nAPP2335632633



Photograph 17

Date: 02/19/2024

Description: Excavation Activities

View: Northeast

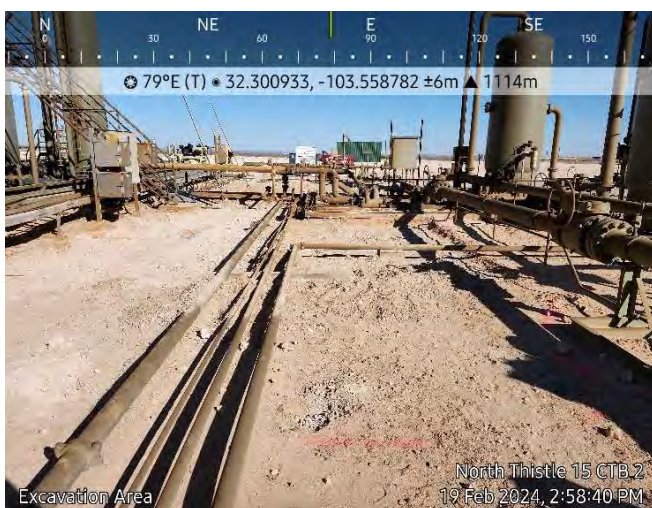


Photograph 18

Date: 02/19/2024

Description: Vertical Delineation Sampling (SS01)

View: South



Photograph 19

Date: 02/19/2024

Description: Excavation Activities

View: East



Photograph 20

Date: 02/19/2024

Description: Excavation Activities

View: Southwest

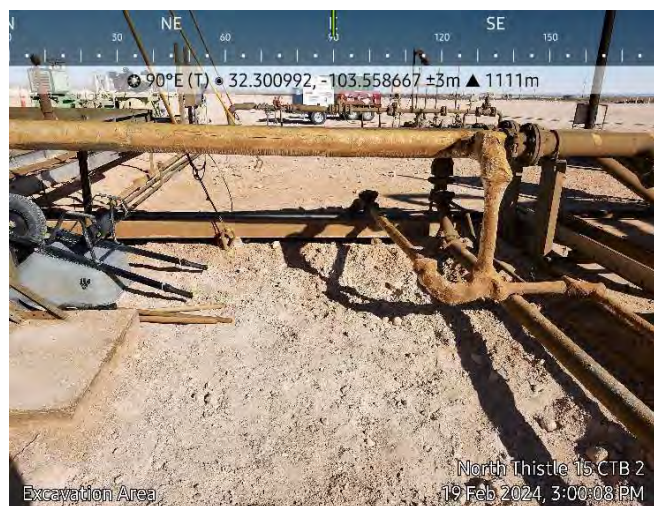


Photographic Log

Devon Energy Production Company

North Thistle 15 CTB 2

nAPP2335632633

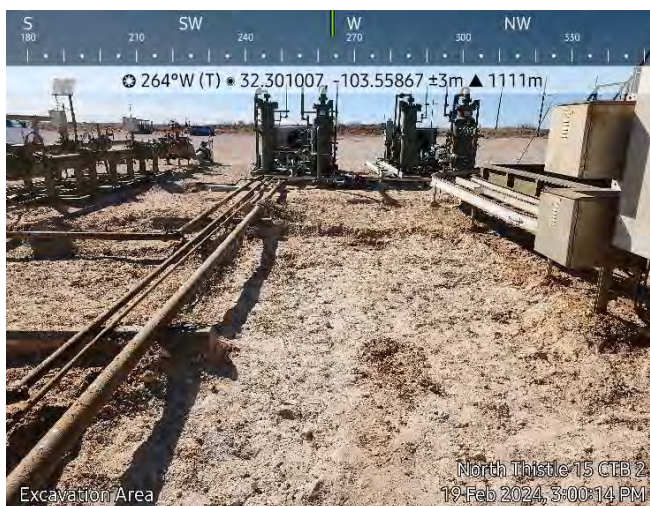


Photograph 21

Date: 02/19/2024

Description: Excavation Activities

View: East

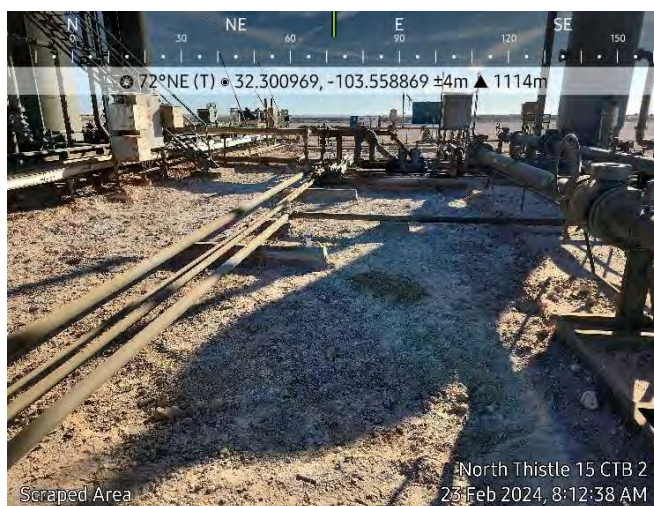


Photograph 22

Date: 02/19/2024

Description: Excavation Activities

View: West

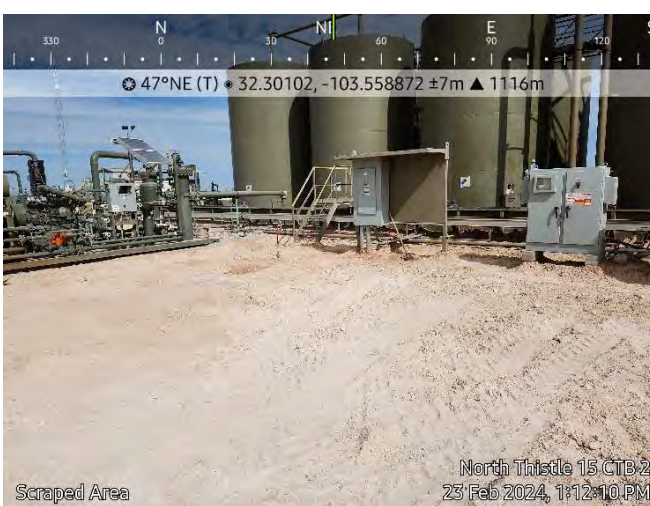


Photograph 23

Date: 02/13/2024

Description: Excavation Activities

View: East



Photograph 24

Date: 02/13/2024


Description: Excavation Activities


View: Northeast




APPENDIX C

Lithologic Soil Sampling Logs

| | | | | | | | | | | | |
|--|----------------|-----------|----------|-----------|-----------------------|----------------|------------------|-----------------------------------|--|--------------------|--|
|  ENSOLUM | | | | | | | | Sample Name: BH01 | | Date: 02/07/24 | |
| | | | | | | | | Site Name: North Thistle 15 CTB 2 | | | |
| | | | | | | | | Incident Number: nAPP2335632633 | | | |
| | | | | | | | | Job Number: 03A1987114 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Israel Estrella | | Method: Hand Auger | |
| Coordinates: 32.3010133, -103.5586887 | | | | | | | | Hole Diameter: 3" | | Total Depth: 1' | |
| Comments: Field screening conducted with HACH Chloride Test Strips for chloride and TPH utilizing PetroFLAG® soil reagents. 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 | | | |
| D | 240 | 133 | N | BH01 | 0 | 0 | CCHE | Caliche - No Staining, No odor. | | | |
| D | <160 | 31 | N | BH01 | 1 | 1 | CCHE | Caliche - No Staining, No odor. | | | |
| Total Depth = 1' | | | | | | | | | | | |
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|--|----------------|-----------|----------|-----------|-----------------------|----------------|------------------|-----------------------------------|--|--------------------|--|
|  ENSOLUM | | | | | | | | Sample Name: BH02 | | Date: 02/07/24 | |
| | | | | | | | | Site Name: North Thistle 15 CTB 2 | | | |
| | | | | | | | | Incident Number: nAPP2335632633 | | | |
| | | | | | | | | Job Number: 03A1987114 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Israel Estrella | | Method: Hand Auger | |
| Coordinates: 32.3012837, -103.5587054 | | | | | | | | Hole Diameter: 3" | | Total Depth: 1' | |
| Comments: Field screening conducted with HACH Chloride Test Strips for chloride and TPH utilizing PetroFLAG® soil reagents. 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 | | | |
| D | 576 | 0 | N | BH02 | 0 | 0 | CCHE | Caliche - No Staining, No odor. | | | |
| D | <160 | 22 | N | BH02 | 1 | 1 | CCHE | Caliche - No Staining, No odor. | | | |
| Total Depth = 1' | | | | | | | | | | | |

| | | | | | | | | | | | |
|--|----------------|-----------|----------|-----------|-----------------------|----------------|------------------|-----------------------------------|--|--------------------|--|
|  ENSOLUM | | | | | | | | Sample Name: BH03 | | Date: 02/07/24 | |
| | | | | | | | | Site Name: North Thistle 15 CTB 2 | | | |
| | | | | | | | | Incident Number: nAPP2335632633 | | | |
| | | | | | | | | Job Number: 03A1987114 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Israel Estrella | | Method: Hand Auger | |
| Coordinates: 32.3010791, -103.5588409 | | | | | | | | Hole Diameter: 3" | | Total Depth: 1' | |
| Comments: Field screening conducted with HACH Chloride Test Strips for chloride and TPH utilizing PetroFLAG® soil reagents. 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 | | | |
| D | 1271 | 0 | N | BH03 | 0 | 0 | CCHE | Caliche - No Staining, No odor. | | | |
| D | 274 | 8 | N | BH03 | 1 | 1 | CCHE | Caliche - No Staining, No odor. | | | |
| Total Depth = 1' | | | | | | | | | | | |

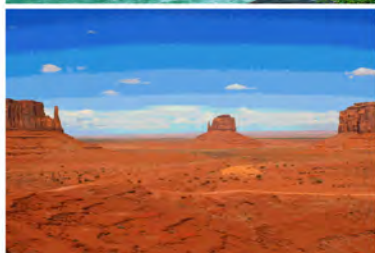


APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: North Thistle 15 CTB 2

Work Order: E401070

Job Number: 01058-0007

Received: 1/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/19/24

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: 1/19/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: North Thistle 15 CTB 2
Workorder: E401070
Date Received: 1/15/2024 11:50:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/15/2024 11:50:00AM, under the Project Name: North Thistle 15 CTB 2.

The analytical test results summarized in this report with the Project Name: North Thistle 15 CTB 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | | |
|-------------------------|------------------|------------------------|----------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 01/19/24 12:30 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SS01-0' | E401070-01A | Soil | 01/11/24 | 01/15/24 | Glass Jar, 2 oz. |
| SS02-0' | E401070-02A | Soil | 01/11/24 | 01/15/24 | Glass Jar, 2 oz. |
| SS03-0' | E401070-03A | Soil | 01/11/24 | 01/15/24 | Glass Jar, 2 oz. |
| SS04-0' | E401070-04A | Soil | 01/11/24 | 01/15/24 | Glass Jar, 2 oz. |



Sample Data

| | | |
|---|--|-----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 1/19/2024 12:30:50PM |
|---|--|-----------------------------------|

SS01-0'

E401070-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| | | | | | | |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2403012 | |
| Benzene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| Toluene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| o-Xylene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/15/24 | 01/19/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 95.6 % | 70-130 | | 01/15/24 | 01/19/24 | |
| | | | | | | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2403012 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/15/24 | 01/19/24 | |
| | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 96.0 % | 70-130 | | 01/15/24 | 01/19/24 | |
| | | | | | | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2403016 | |
| Diesel Range Organics (C10-C28) | 3780 | 25.0 | 1 | 01/15/24 | 01/17/24 | |
| Oil Range Organics (C28-C36) | 1690 | 50.0 | 1 | 01/15/24 | 01/17/24 | |
| | | | | | | |
| Surrogate: n-Nonane | 122 % | 50-200 | | 01/15/24 | 01/17/24 | |
| | | | | | | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2403030 | |
| Chloride | 208 | 20.0 | 1 | 01/16/24 | 01/17/24 | |



Sample Data

| | | |
|---|--|-----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 1/19/2024 12:30:50PM |
|---|--|-----------------------------------|

SS02-0'

E401070-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2403012 | |
| Benzene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| Toluene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| o-Xylene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/15/24 | 01/19/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 90.3 % | 70-130 | | 01/15/24 | 01/19/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2403012 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/15/24 | 01/19/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 96.4 % | 70-130 | | 01/15/24 | 01/19/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2403016 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/15/24 | 01/17/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/15/24 | 01/17/24 | |
| Surrogate: n-Nonane | 110 % | 50-200 | | 01/15/24 | 01/17/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2403030 | |
| Chloride | 109 | 100 | 5 | 01/16/24 | 01/17/24 | |



Sample Data

| | | |
|---|--|-----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 1/19/2024 12:30:50PM |
|---|--|-----------------------------------|

SS03-0'

E401070-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2403012 |
| Benzene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| Toluene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| o-Xylene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/15/24 | 01/19/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 90.0 % | 70-130 | | 01/15/24 | 01/19/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2403012 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/15/24 | 01/19/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.7 % | 70-130 | | 01/15/24 | 01/19/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2403016 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/15/24 | 01/17/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/15/24 | 01/17/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 114 % | 50-200 | | 01/15/24 | 01/17/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2403030 |
| Chloride | 48.0 | 20.0 | 1 | 01/16/24 | 01/17/24 | |



Sample Data

| | | |
|---|--|-----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 1/19/2024 12:30:50PM |
|---|--|-----------------------------------|

SS04-0'

E401070-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2403012 |
| Benzene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| Toluene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| o-Xylene | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/15/24 | 01/19/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/15/24 | 01/19/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 92.3 % | 70-130 | | 01/15/24 | 01/19/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2403012 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/15/24 | 01/19/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 96.2 % | 70-130 | | 01/15/24 | 01/19/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2403016 |
| Diesel Range Organics (C10-C28) | 34.0 | 25.0 | 1 | 01/15/24 | 01/17/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/15/24 | 01/17/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 114 % | 50-200 | | 01/15/24 | 01/17/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2403030 |
| Chloride | ND | 20.0 | 1 | 01/16/24 | 01/17/24 | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|----------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 1/19/2024 12:30:50PM |

Volatile Organics by EPA 8021B

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 (2403012-BLK1) Prepared: 01/15/24 Analyzed: 01/18/24

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

Surrogate: 4-Bromochlorobenzene-PID 7.71 8.00 96.4 70-130

LCS (2403012-BS1) Prepared: 01/15/24 Analyzed: 01/18/24

| | | | | | | | | | |
|---------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 4.65 | 0.0250 | 5.00 | | 92.9 | 70-130 | | | |
| Ethylbenzene | 4.73 | 0.0250 | 5.00 | | 94.6 | 70-130 | | | |
| Toluene | 4.75 | 0.0250 | 5.00 | | 95.0 | 70-130 | | | |
| o-Xylene | 4.75 | 0.0250 | 5.00 | | 94.9 | 70-130 | | | |
| p,m-Xylene | 9.63 | 0.0500 | 10.0 | | 96.3 | 70-130 | | | |
| Total Xylenes | 14.4 | 0.0250 | 15.0 | | 95.9 | 70-130 | | | |

Surrogate: 4-Bromochlorobenzene-PID 7.64 8.00 95.5 70-130

Matrix Spike (2403012-MS1) Source: E401069-09 Prepared: 01/15/24 Analyzed: 01/19/24

| | | | | | | | | | |
|---------------|------|--------|------|----|------|--------|--|--|--|
| Benzene | 4.59 | 0.0250 | 5.00 | ND | 91.9 | 54-133 | | | |
| Ethylbenzene | 4.68 | 0.0250 | 5.00 | ND | 93.5 | 61-133 | | | |
| Toluene | 4.70 | 0.0250 | 5.00 | ND | 94.0 | 61-130 | | | |
| o-Xylene | 4.70 | 0.0250 | 5.00 | ND | 94.0 | 63-131 | | | |
| p,m-Xylene | 9.53 | 0.0500 | 10.0 | ND | 95.3 | 63-131 | | | |
| Total Xylenes | 14.2 | 0.0250 | 15.0 | ND | 94.9 | 63-131 | | | |

Surrogate: 4-Bromochlorobenzene-PID 7.43 8.00 92.9 70-130

Matrix Spike Dup (2403012-MSD1) Source: E401069-09 Prepared: 01/15/24 Analyzed: 01/19/24

| | | | | | | | | | |
|---------------|------|--------|------|----|------|--------|------|----|--|
| Benzene | 4.67 | 0.0250 | 5.00 | ND | 93.4 | 54-133 | 1.62 | 20 | |
| Ethylbenzene | 4.74 | 0.0250 | 5.00 | ND | 94.9 | 61-133 | 1.45 | 20 | |
| Toluene | 4.78 | 0.0250 | 5.00 | ND | 95.5 | 61-130 | 1.60 | 20 | |
| o-Xylene | 4.77 | 0.0250 | 5.00 | ND | 95.4 | 63-131 | 1.50 | 20 | |
| p,m-Xylene | 9.68 | 0.0500 | 10.0 | ND | 96.8 | 63-131 | 1.57 | 20 | |
| Total Xylenes | 14.4 | 0.0250 | 15.0 | ND | 96.3 | 63-131 | 1.55 | 20 | |

Surrogate: 4-Bromochlorobenzene-PID 7.44 8.00 93.0 70-130



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|----------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 1/19/2024 12:30:50PM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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

Blank (2403012-BLK1) Prepared: 01/15/24 Analyzed: 01/18/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.64 | | 8.00 | | 95.6 | 70-130 | | | |

LCS (2403012-BS2) Prepared: 01/15/24 Analyzed: 01/18/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 42.8 | 20.0 | 50.0 | | 85.6 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.83 | | 8.00 | | 97.9 | 70-130 | | | |

Matrix Spike (2403012-MS2) Source: E401069-09 Prepared: 01/15/24 Analyzed: 01/19/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 42.8 | 20.0 | 50.0 | ND | 85.6 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.70 | | 8.00 | | 96.3 | 70-130 | | | |

Matrix Spike Dup (2403012-MSD2) Source: E401069-09 Prepared: 01/15/24 Analyzed: 01/19/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|-------|----|--|
| Gasoline Range Organics (C6-C10) | 43.1 | 20.0 | 50.0 | ND | 86.2 | 70-130 | 0.710 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.71 | | 8.00 | | 96.3 | 70-130 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|----------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 1/19/2024 12:30:50PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|---------------------------------------|------|------|--|------|--------|--|--|--|
| Blank (2403016-BLK1) | Prepared: 01/15/24 Analyzed: 01/16/24 | | | | | | | | |
| 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 (2403016-BS1) | Prepared: 01/15/24 Analyzed: 01/16/24 | | | | | | | | |
| Diesel Range Organics (C10-C28) | 222 | 25.0 | 250 | | 89.0 | 38-132 | | | |
| Surrogate: n-Nonane | 49.8 | | 50.0 | | 99.5 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--------------------|---------------------------------------|--------|--|--|--|
| Matrix Spike (2403016-MS1) | | | | Source: E401069-12 | Prepared: 01/15/24 Analyzed: 01/16/24 | | | | |
| Diesel Range Organics (C10-C28) | 265 | 25.0 | 250 | ND | 106 | 38-132 | | | |
| Surrogate: n-Nonane | 48.9 | | 50.0 | | 97.7 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--------------------|---------------------------------------|--------|------|----|--|
| Matrix Spike Dup (2403016-MSD1) | | | | Source: E401069-12 | Prepared: 01/15/24 Analyzed: 01/16/24 | | | | |
| Diesel Range Organics (C10-C28) | 269 | 25.0 | 250 | ND | 108 | 38-132 | 1.65 | 20 | |
| Surrogate: n-Nonane | 49.5 | | 50.0 | | 98.9 | 50-200 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|----------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 1/19/2024 12:30:50PM |

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 (2403030-BLK1) | | | | | Prepared: 01/16/24 Analyzed: 01/17/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2403030-BS1) | | | | | Prepared: 01/16/24 Analyzed: 01/17/24 | | | | |
| Chloride | 248 | 20.0 | 250 | | 99.3 | 90-110 | | | |
| Matrix Spike (2403030-MS1) | | | | | Source: E401070-02 | | Prepared: 01/16/24 Analyzed: 01/17/24 | | |
| Chloride | 352 | 100 | 250 | 109 | 97.0 | 80-120 | | | |
| Matrix Spike Dup (2403030-MSD1) | | | | | Source: E401070-02 | | Prepared: 01/16/24 Analyzed: 01/17/24 | | |
| Chloride | 348 | 100 | 250 | 109 | 95.7 | 80-120 | 0.880 | 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: | North Thistle 15 CTB 2 | |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | Reported: |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 01/19/24 12:30 |

- 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.



| | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|-------------------------|--------------|-------------|-------------|----------------|------------|------------|----|----|----------|--------------------|---------|-------|------|----|----|--|
| Client: Devon | Bill To Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com | Lab Use Only | | | | | | TAT | | | | EPA Program | | | | | | |
| Project: North Thistle 15 CTB 2 | | Lab WO# | Job Number | | | | | 1D | 2D | 3D | Standard | CWA | SDWA | | | | | |
| Project Manager: Ashley Giovengo | | E 401070 | | | | | 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 | | | | | |

| 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 |
|--------------|--------------|--------|-------------------|-----------|------------|-------------------------|--------------|-------------|-------------|----------------|--|--|--|----------|--|---------|---------|
| 9:45 | 1/11/2024 | SOIL | 1 | SS01 - 0' | 1 | | | | | | | | | X | | | |
| 9:49 | 1/11/2024 | SOIL | 1 | SS02 - 0' | 2 | | | | | | | | | X | | | |
| 9:52 | 1/11/2024 | SOIL | 1 | SS03 - 0' | 3 | | | | | | | | | X | | | |
| 9:54 | 1/11/2024 | SOIL | 1 | SS04 - 0' | 4 | | | | | | | | | X | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, ehafat@ensolum.com, iestrella@ensolum.com - Samples kept iced.

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: Israel Estrella

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 Received on ice: (Y) / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4 |
| <i>Michelle Ceyl</i> | 1/12/24 | 8:05 | <i>Michelle Ceyl</i> | 1-12-24 | 0805 | |
| <i>Michelle Ceyl</i> | 1-12-24 | 1600 | <i>Shawn Messo</i> | 1-12-24 | 1615 | |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | |
| <i>Shawn Messo</i> | 1-12-24 | 2215 | <i>Shawn Messo</i> | 1-15-24 | 1115 | |

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 sample is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Envirotech Analytical Laboratory

Printed: 1/19/2024 12:27:09PM

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: | 01/15/24 11:50 | Work Order ID: | E401070 |
| Phone: | (505) 382-1211 | Date Logged In: | 01/15/24 11:50 | Logged In By: | Angelina Pineda |
| Email: | ashley.giovengo@wescominc.com | Due Date: | 01/19/24 17:00 (4 day TAT) | | |

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? 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: Thistle 15 CTB 2

Work Order: E402092

Job Number: 01058-0007

Received: 2/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Thistle 15 CTB 2
Workorder: E402092
Date Received: 2/9/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/9/2024 6:00:00AM, under the Project Name: Thistle 15 CTB 2.

The analytical test results summarized in this report with the Project Name: Thistle 15 CTB 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | | |
|-------------------------|------------------|------------------|---------------------------------|
| Devon Energy - Carlsbad | Project Name: | Thistle 15 CTB 2 | Reported: 02/14/24 13:54 |
| 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 |
|------------------|---------------|--------|----------|----------|------------------|
| BH01-0' | E402092-01A | Soil | 02/07/24 | 02/09/24 | Glass Jar, 2 oz. |
| BH01-1' | E402092-02A | Soil | 02/07/24 | 02/09/24 | Glass Jar, 2 oz. |
| BH02-0' | E402092-03A | Soil | 02/07/24 | 02/09/24 | Glass Jar, 2 oz. |
| BH02-1' | E402092-04A | Soil | 02/07/24 | 02/09/24 | Glass Jar, 2 oz. |
| BH03-0' | E402092-05A | Soil | 02/07/24 | 02/09/24 | Glass Jar, 2 oz. |
| BH03-1' | E402092-06A | Soil | 02/07/24 | 02/09/24 | Glass Jar, 2 oz. |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/14/2024 1:54:37PM |
|---|--|----------------------------------|

BH01-0'

E402092-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Benzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Toluene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/09/24 | 02/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 91.6 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/09/24 | 02/10/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 97.1 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2407025 | |
| Diesel Range Organics (C10-C28) | 35.0 | 25.0 | 1 | 02/13/24 | 02/13/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/13/24 | 02/13/24 | |
| Surrogate: n-Nonane | 106 % | 50-200 | | 02/13/24 | 02/13/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: RAS | | Batch: 2406111 | |
| Chloride | 285 | 20.0 | 1 | 02/09/24 | 02/10/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/14/2024 1:54:37PM |
|---|--|----------------------------------|

BH01-1'

E402092-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Benzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Toluene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/09/24 | 02/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 91.1 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/09/24 | 02/10/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 96.0 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2407025 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/13/24 | 02/13/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/13/24 | 02/13/24 | |
| Surrogate: n-Nonane | 101 % | 50-200 | | 02/13/24 | 02/13/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: RAS | | Batch: 2406111 | |
| Chloride | 55.1 | 20.0 | 1 | 02/09/24 | 02/10/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/14/2024 1:54:37PM |
|---|--|----------------------------------|

BH02-0'

E402092-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Benzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Toluene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/09/24 | 02/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 91.2 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/09/24 | 02/10/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 96.7 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2407025 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/13/24 | 02/13/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/13/24 | 02/13/24 | |
| Surrogate: n-Nonane | 100 % | 50-200 | | 02/13/24 | 02/13/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: RAS | | Batch: 2406111 | |
| Chloride | 527 | 200 | 10 | 02/09/24 | 02/10/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/14/2024 1:54:37PM |
|---|--|----------------------------------|

BH02-1'

E402092-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Benzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Toluene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/09/24 | 02/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 90.6 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/09/24 | 02/10/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 96.4 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2407025 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/13/24 | 02/13/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/13/24 | 02/13/24 | |
| Surrogate: n-Nonane | 114 % | 50-200 | | 02/13/24 | 02/13/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: RAS | | Batch: 2406111 | |
| Chloride | 61.6 | 20.0 | 1 | 02/09/24 | 02/10/24 | |



Sample Data

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

Project Name: Thistle 15 CTB 2
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/14/2024 1:54:37PM

BH03-0'

E402092-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Benzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Toluene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/09/24 | 02/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | 90.9 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/09/24 | 02/10/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | 96.5 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2407025 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/13/24 | 02/13/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/13/24 | 02/13/24 | |
| <i>Surrogate: n-Nonane</i> | 107 % | 50-200 | | 02/13/24 | 02/13/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: RAS | | Batch: 2406111 | |
| Chloride | 1040 | 200 | 10 | 02/09/24 | 02/10/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/14/2024 1:54:37PM |
|---|--|----------------------------------|

BH03-1'

E402092-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Benzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Toluene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/09/24 | 02/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/09/24 | 02/10/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 91.0 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/09/24 | 02/10/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 97.6 % | 70-130 | | 02/09/24 | 02/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2407025 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/13/24 | 02/13/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/13/24 | 02/13/24 | |
| Surrogate: n-Nonane | 103 % | 50-200 | | 02/13/24 | 02/13/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: RAS | | Batch: 2406111 | |
| Chloride | 212 | 20.0 | 1 | 02/09/24 | 02/10/24 | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/14/2024 1:54:37PM |

Volatile Organics by EPA 8021B

Analyst: EG

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

Blank (2406103-BLK1) Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.36 | | 8.00 | | 92.0 | 70-130 | | | |

LCS (2406103-BS1) Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 4.74 | 0.0250 | 5.00 | | 94.7 | 70-130 | | | |
| Ethylbenzene | 4.69 | 0.0250 | 5.00 | | 93.9 | 70-130 | | | |
| Toluene | 4.71 | 0.0250 | 5.00 | | 94.1 | 70-130 | | | |
| o-Xylene | 4.66 | 0.0250 | 5.00 | | 93.1 | 70-130 | | | |
| p,m-Xylene | 9.46 | 0.0500 | 10.0 | | 94.6 | 70-130 | | | |
| Total Xylenes | 14.1 | 0.0250 | 15.0 | | 94.1 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.42 | | 8.00 | | 92.8 | 70-130 | | | |

Matrix Spike (2406103-MS1) Source: E402089-01 Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene | 4.64 | 0.0250 | 5.00 | ND | 92.8 | 54-133 | | | |
| Ethylbenzene | 4.61 | 0.0250 | 5.00 | ND | 92.3 | 61-133 | | | |
| Toluene | 4.63 | 0.0250 | 5.00 | ND | 92.6 | 61-130 | | | |
| o-Xylene | 4.60 | 0.0250 | 5.00 | ND | 91.9 | 63-131 | | | |
| p,m-Xylene | 9.32 | 0.0500 | 10.0 | ND | 93.2 | 63-131 | | | |
| Total Xylenes | 13.9 | 0.0250 | 15.0 | ND | 92.8 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.37 | | 8.00 | | 92.1 | 70-130 | | | |

Matrix Spike Dup (2406103-MSD1) Source: E402089-01 Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene | 5.09 | 0.0250 | 5.00 | ND | 102 | 54-133 | 9.20 | 20 | |
| Ethylbenzene | 5.04 | 0.0250 | 5.00 | ND | 101 | 61-133 | 8.90 | 20 | |
| Toluene | 5.06 | 0.0250 | 5.00 | ND | 101 | 61-130 | 8.83 | 20 | |
| o-Xylene | 5.03 | 0.0250 | 5.00 | ND | 101 | 63-131 | 9.11 | 20 | |
| p,m-Xylene | 10.1 | 0.0500 | 10.0 | ND | 101 | 63-131 | 8.46 | 20 | |
| Total Xylenes | 15.2 | 0.0250 | 15.0 | ND | 101 | 63-131 | 8.68 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.30 | | 8.00 | | 91.2 | 70-130 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/14/2024 1:54:37PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2406103-BLK1) Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.73 | | 8.00 | | 96.6 | 70-130 | | | |

LCS (2406103-BS2) Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 43.2 | 20.0 | 50.0 | | 86.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.86 | | 8.00 | | 98.2 | 70-130 | | | |

Matrix Spike (2406103-MS2) Source: E402089-01 Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 45.6 | 20.0 | 50.0 | ND | 91.2 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.76 | | 8.00 | | 97.0 | 70-130 | | | |

Matrix Spike Dup (2406103-MSD2) Source: E402089-01 Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 46.3 | 20.0 | 50.0 | ND | 92.5 | 70-130 | 1.46 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.76 | | 8.00 | | 97.0 | 70-130 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/14/2024 1:54:37PM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2407025-BLK1) Prepared: 02/13/24 Analyzed: 02/13/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 55.8 | | 50.0 | | 112 | 50-200 | | | |

LCS (2407025-BS1) Prepared: 02/13/24 Analyzed: 02/13/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 274 | 25.0 | 250 | | 109 | 38-132 | | | |
| Surrogate: n-Nonane | 58.9 | | 50.0 | | 118 | 50-200 | | | |

Matrix Spike (2407025-MS1) Source: E402092-04 Prepared: 02/13/24 Analyzed: 02/13/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 291 | 25.0 | 250 | ND | 117 | 38-132 | | | |
| Surrogate: n-Nonane | 60.1 | | 50.0 | | 120 | 50-200 | | | |

Matrix Spike Dup (2407025-MSD1) Source: E402092-04 Prepared: 02/13/24 Analyzed: 02/13/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|-----|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 282 | 25.0 | 250 | ND | 113 | 38-132 | 3.19 | 20 | |
| Surrogate: n-Nonane | 59.5 | | 50.0 | | 119 | 50-200 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/14/2024 1:54:37PM |

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 (2406111-BLK1) | | | | | Prepared: 02/09/24 Analyzed: 02/09/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2406111-BS1) | | | | | Prepared: 02/09/24 Analyzed: 02/09/24 | | | | |
| Chloride | 247 | 20.0 | 250 | | 99.0 | 90-110 | | | |
| Matrix Spike (2406111-MS1) | | | | | Source: E402007-04 | | Prepared: 02/09/24 Analyzed: 02/09/24 | | |
| Chloride | 1650 | 200 | 250 | 1430 | 86.5 | 80-120 | | | |
| Matrix Spike Dup (2406111-MSD1) | | | | | Source: E402007-04 | | Prepared: 02/09/24 Analyzed: 02/09/24 | | |
| Chloride | 1660 | 200 | 250 | 1430 | 91.2 | 80-120 | 0.711 | 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: | Thistle 15 CTB 2 | |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | Reported: |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 02/14/24 13:54 |

- 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

Page 1 of 1

| | | | | |
|--------------------------------------|-----------------------------------|---------------------|-------------------|-------------|
| Client: Devon | Bill To | Lab Use Only | TAT | EPA Program |
| North Thistle 15 CTB 2 | Attention: Dale Woodall | Lab WO# | 1D 2D 3D Standard | CWA SDWA |
| Project Manager: Ashley Giovengo | Address: 205 E Bender Road #150 | Job Number | 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 | | | |
| Phone: 575-988-0055 | Email: dale.woodall@dvn.com | | | |
| 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 | TX | State | Remarks |
|--------------|--------------|--------|-------------------|-----------|------------|-------------------------|--------------|-------------|-------------|----------------|-------|----|-------|---------|
| 11:41 | 2/7/2024 | Soil | 1 | BH01 - 0' | 1 | | | | | | X | | | |
| 11:45 | 2/7/2024 | Soil | 1 | BH01 - 1' | 2 | | | | | | X | | | |
| 11:48 | 2/7/2024 | Soil | 1 | BH02 - 0' | 3 | | | | | | X | | | |
| 11:52 | 2/7/2024 | Soil | 1 | BH02 - 1' | 4 | | | | | | X | | | |
| 11:55 | 2/7/2024 | Soil | 1 | BH03 - 0' | 5 | | | | | | X | | | |
| 11:59 | 2/7/2024 | Soil | 1 | BH03 - 1' | 6 | | | | | | X | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, ehaf@ensolum.com, iestrella@ensolum.com

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

Sampled by: Israel Estrella

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 |
| | 02/08/24 | 8:15 AM | | 2-8-24 | 0815 | 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 |
| | 2-8-24 | 1530 | | 2-8-24 | 1800 | |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | AVG Temp °C |
| | 2-8-24 | 2400 | | 2-9-24 | 0600 | 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 sample 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: 2/9/2024 9:29:02AM

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: | 02/09/24 06:00 | Work Order ID: | E402092 |
| Phone: | (505) 382-1211 | Date Logged In: | 02/08/24 16:04 | Logged In By: | Alexa Michaels |
| Email: | ashley.giovengo@wescominc.com | Due Date: | 02/15/24 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

Carrier: Courier

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

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 InstructionComments/Resolution

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: Thistle 15 CTB 2

Work Order: E402093

Job Number: 01058-0007

Received: 2/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/15/24

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: 2/15/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Thistle 15 CTB 2
Workorder: E402093
Date Received: 2/9/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/9/2024 6:00:00AM, under the Project Name: Thistle 15 CTB 2.

The analytical test results summarized in this report with the Project Name: Thistle 15 CTB 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

| | | | |
|-------------------------|------------------|------------------|----------------|
| Devon Energy - Carlsbad | Project Name: | Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 02/15/24 14:02 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SS01A-0' | E402093-01A | Soil | 02/07/24 | 02/09/24 | Glass Jar, 2 oz. |
| SS04A-0' | E402093-02A | Soil | 02/07/24 | 02/09/24 | Glass Jar, 2 oz. |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/15/2024 2:02:35PM |
|---|--|----------------------------------|

SS01A-0'

E402093-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Benzene | ND | 0.0250 | 1 | 02/09/24 | 02/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/09/24 | 02/11/24 | |
| Toluene | ND | 0.0250 | 1 | 02/09/24 | 02/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/09/24 | 02/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/09/24 | 02/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/09/24 | 02/11/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 90.1 % | 70-130 | | 02/09/24 | 02/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2406103 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/09/24 | 02/11/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 97.4 % | 70-130 | | 02/09/24 | 02/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2407037 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/13/24 | 02/14/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/13/24 | 02/14/24 | |
| Surrogate: n-Nonane | 101 % | 50-200 | | 02/13/24 | 02/14/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2407011 | |
| Chloride | ND | 20.0 | 1 | 02/12/24 | 02/12/24 | |



Sample Data

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

Project Name: Thistle 15 CTB 2
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/15/2024 2:02:35PM

SS04A-0'

E402093-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2406103 |
| Benzene | ND | 0.0250 | 1 | 02/09/24 | 02/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/09/24 | 02/11/24 | |
| Toluene | ND | 0.0250 | 1 | 02/09/24 | 02/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/09/24 | 02/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/09/24 | 02/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/09/24 | 02/11/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 89.5 % | 70-130 | | 02/09/24 | 02/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2406103 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/09/24 | 02/11/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 97.5 % | 70-130 | | 02/09/24 | 02/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2407037 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/13/24 | 02/14/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/13/24 | 02/14/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 92.4 % | 50-200 | | 02/13/24 | 02/14/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2407011 |
| Chloride | ND | 20.0 | 1 | 02/12/24 | 02/12/24 | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/15/2024 2:02:35PM |

Volatile Organics by EPA 8021B

Analyst: EG

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

Blank (2406103-BLK1) Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.36 | | 8.00 | | 92.0 | 70-130 | | | |

LCS (2406103-BS1) Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 4.74 | 0.0250 | 5.00 | | 94.7 | 70-130 | | | |
| Ethylbenzene | 4.69 | 0.0250 | 5.00 | | 93.9 | 70-130 | | | |
| Toluene | 4.71 | 0.0250 | 5.00 | | 94.1 | 70-130 | | | |
| o-Xylene | 4.66 | 0.0250 | 5.00 | | 93.1 | 70-130 | | | |
| p,m-Xylene | 9.46 | 0.0500 | 10.0 | | 94.6 | 70-130 | | | |
| Total Xylenes | 14.1 | 0.0250 | 15.0 | | 94.1 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.42 | | 8.00 | | 92.8 | 70-130 | | | |

Matrix Spike (2406103-MS1) Source: E402089-01 Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene | 4.64 | 0.0250 | 5.00 | ND | 92.8 | 54-133 | | | |
| Ethylbenzene | 4.61 | 0.0250 | 5.00 | ND | 92.3 | 61-133 | | | |
| Toluene | 4.63 | 0.0250 | 5.00 | ND | 92.6 | 61-130 | | | |
| o-Xylene | 4.60 | 0.0250 | 5.00 | ND | 91.9 | 63-131 | | | |
| p,m-Xylene | 9.32 | 0.0500 | 10.0 | ND | 93.2 | 63-131 | | | |
| Total Xylenes | 13.9 | 0.0250 | 15.0 | ND | 92.8 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.37 | | 8.00 | | 92.1 | 70-130 | | | |

Matrix Spike Dup (2406103-MSD1) Source: E402089-01 Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene | 5.09 | 0.0250 | 5.00 | ND | 102 | 54-133 | 9.20 | 20 | |
| Ethylbenzene | 5.04 | 0.0250 | 5.00 | ND | 101 | 61-133 | 8.90 | 20 | |
| Toluene | 5.06 | 0.0250 | 5.00 | ND | 101 | 61-130 | 8.83 | 20 | |
| o-Xylene | 5.03 | 0.0250 | 5.00 | ND | 101 | 63-131 | 9.11 | 20 | |
| p,m-Xylene | 10.1 | 0.0500 | 10.0 | ND | 101 | 63-131 | 8.46 | 20 | |
| Total Xylenes | 15.2 | 0.0250 | 15.0 | ND | 101 | 63-131 | 8.68 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.30 | | 8.00 | | 91.2 | 70-130 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/15/2024 2:02:35PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2406103-BLK1) Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.73 | | 8.00 | | 96.6 | 70-130 | | | |

LCS (2406103-BS2) Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 43.2 | 20.0 | 50.0 | | 86.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.86 | | 8.00 | | 98.2 | 70-130 | | | |

Matrix Spike (2406103-MS2) Source: E402089-01 Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 45.6 | 20.0 | 50.0 | ND | 91.2 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.76 | | 8.00 | | 97.0 | 70-130 | | | |

Matrix Spike Dup (2406103-MSD2) Source: E402089-01 Prepared: 02/09/24 Analyzed: 02/10/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 46.3 | 20.0 | 50.0 | ND | 92.5 | 70-130 | 1.46 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.76 | | 8.00 | | 97.0 | 70-130 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/15/2024 2:02:35PM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2407037-BLK1) Prepared: 02/13/24 Analyzed: 02/14/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 48.7 | | 50.0 | | 97.5 | 50-200 | | | |

LCS (2407037-BS1) Prepared: 02/13/24 Analyzed: 02/14/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 242 | 25.0 | 250 | | 96.7 | 38-132 | | | |
| Surrogate: n-Nonane | 45.3 | | 50.0 | | 90.6 | 50-200 | | | |

Matrix Spike (2407037-MS1) Source: E402095-04 Prepared: 02/13/24 Analyzed: 02/14/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 255 | 25.0 | 250 | ND | 102 | 38-132 | | | |
| Surrogate: n-Nonane | 49.5 | | 50.0 | | 99.0 | 50-200 | | | |

Matrix Spike Dup (2407037-MSD1) Source: E402095-04 Prepared: 02/13/24 Analyzed: 02/14/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|-----|--------|-------|----|--|
| Diesel Range Organics (C10-C28) | 255 | 25.0 | 250 | ND | 102 | 38-132 | 0.276 | 20 | |
| Surrogate: n-Nonane | 52.5 | | 50.0 | | 105 | 50-200 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/15/2024 2:02:35PM |

Anions by EPA 300.0/9056A

Analyst: DT

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

| | | | | | | | | | |
|---------------------------------|-----|------|-----|----|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2407011-BLK1) | | | | | Prepared: 02/12/24 Analyzed: 02/12/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2407011-BS1) | | | | | Prepared: 02/12/24 Analyzed: 02/12/24 | | | | |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2407011-MS1) | | | | | Source: E402095-02 | | Prepared: 02/12/24 Analyzed: 02/12/24 | | |
| Chloride | 270 | 20.0 | 250 | ND | 108 | 80-120 | | | |
| Matrix Spike Dup (2407011-MSD1) | | | | | Source: E402095-02 | | Prepared: 02/12/24 Analyzed: 02/12/24 | | |
| Chloride | 272 | 20.0 | 250 | ND | 109 | 80-120 | 0.749 | 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: | Thistle 15 CTB 2 | |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | Reported: |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 02/15/24 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.

[illegible]

Envirotech Analytical Laboratory

Printed: 2/9/2024 9:19:26AM

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
Phone: (505) 382-1211
Email: ashley.giovengo@wescominc.com

Date Received: 02/09/24 06:00
Date Logged In: 02/08/24 16:10
Due Date: 02/15/24 17:00 (4 day TAT)

Work Order ID: E402093
Logged In By: Alexa Michaels

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: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: North Thistle 15 CTB 2

Work Order: E402190

Job Number: 01058-0001

Received: 2/21/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/27/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 2/27/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: North Thistle 15 CTB 2
Workorder: E402190
Date Received: 2/21/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/21/2024 5:30:00AM, under the Project Name: North Thistle 15 CTB 2.

The analytical test results summarized in this report with the Project Name: North Thistle 15 CTB 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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Sample Summary

| | | | |
|-------------------------|------------------|------------------------|----------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0001 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 02/27/24 09:09 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SS01-1' | E402190-01A | Soil | 02/19/24 | 02/21/24 | Glass Jar, 2 oz. |
| SS02-2' | E402190-02A | Soil | 02/19/24 | 02/21/24 | Glass Jar, 2 oz. |
| FS02-0' | E402190-03A | Soil | 02/19/24 | 02/21/24 | Glass Jar, 2 oz. |
| FS03-0' | E402190-04A | Soil | 02/19/24 | 02/21/24 | Glass Jar, 2 oz. |
| FS04-0.5' | E402190-05A | Soil | 02/19/24 | 02/21/24 | Glass Jar, 2 oz. |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0001 Project Manager: Ashley Giovengo | Reported: 2/27/2024 9:09:22AM |
|---|--|----------------------------------|

SS01-1'
E402190-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2408051 | |
| Benzene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Toluene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/21/24 | 02/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 94.5 % | 70-130 | | 02/21/24 | 02/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2408051 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/21/24 | 02/26/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 91.1 % | 70-130 | | 02/21/24 | 02/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2408087 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/23/24 | 02/24/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/23/24 | 02/24/24 | |
| Surrogate: n-Nonane | 83.4 % | 50-200 | | 02/23/24 | 02/24/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2408072 | |
| Chloride | 23.1 | 20.0 | 1 | 02/22/24 | 02/22/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0001 Project Manager: Ashley Giovengo | Reported: 2/27/2024 9:09:22AM |
|---|--|----------------------------------|

FS02-0'

E402190-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2408051 | |
| Benzene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Toluene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/21/24 | 02/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 94.8 % | 70-130 | | 02/21/24 | 02/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2408051 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/21/24 | 02/26/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 90.7 % | 70-130 | | 02/21/24 | 02/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2408087 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/23/24 | 02/24/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/23/24 | 02/24/24 | |
| Surrogate: n-Nonane | 81.9 % | 50-200 | | 02/23/24 | 02/24/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2408072 | |
| Chloride | 39.3 | 20.0 | 1 | 02/22/24 | 02/22/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0001 Project Manager: Ashley Giovengo | Reported: 2/27/2024 9:09:22AM |
|---|--|----------------------------------|

FS03-0'

E402190-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2408051 | |
| Benzene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Toluene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/21/24 | 02/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 94.3 % | 70-130 | | 02/21/24 | 02/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2408051 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/21/24 | 02/26/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 90.6 % | 70-130 | | 02/21/24 | 02/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2408087 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/23/24 | 02/24/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/23/24 | 02/24/24 | |
| Surrogate: n-Nonane | 82.2 % | 50-200 | | 02/23/24 | 02/24/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2408072 | |
| Chloride | 27.6 | 20.0 | 1 | 02/22/24 | 02/23/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0001 Project Manager: Ashley Giovengo | Reported: 2/27/2024 9:09:22AM |
|---|--|----------------------------------|

FS04-0.5'

E402190-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2408051 | |
| Benzene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Toluene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/21/24 | 02/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/21/24 | 02/26/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 98.8 % | 70-130 | | 02/21/24 | 02/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2408051 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/21/24 | 02/26/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 90.5 % | 70-130 | | 02/21/24 | 02/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2408087 | |
| Diesel Range Organics (C10-C28) | 194 | 25.0 | 1 | 02/23/24 | 02/24/24 | |
| Oil Range Organics (C28-C36) | 64.0 | 50.0 | 1 | 02/23/24 | 02/24/24 | |
| Surrogate: n-Nonane | 82.7 % | 50-200 | | 02/23/24 | 02/24/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2408072 | |
| Chloride | 76.8 | 20.0 | 1 | 02/22/24 | 02/23/24 | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0001 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/27/2024 9:09:22AM |

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 (2408051-BLK1) Prepared: 02/21/24 Analyzed: 02/25/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| 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 | | 94.5 | 70-130 | | | |

LCS (2408051-BS1) Prepared: 02/21/24 Analyzed: 02/25/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 4.82 | 0.0250 | 5.00 | | 96.5 | 70-130 | | | |
| Ethylbenzene | 4.74 | 0.0250 | 5.00 | | 94.7 | 70-130 | | | |
| Toluene | 4.82 | 0.0250 | 5.00 | | 96.4 | 70-130 | | | |
| o-Xylene | 4.77 | 0.0250 | 5.00 | | 95.5 | 70-130 | | | |
| p,m-Xylene | 9.66 | 0.0500 | 10.0 | | 96.6 | 70-130 | | | |
| Total Xylenes | 14.4 | 0.0250 | 15.0 | | 96.2 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.63 | | 8.00 | | 95.4 | 70-130 | | | |

Matrix Spike (2408051-MS1) Source: E402187-01 Prepared: 02/21/24 Analyzed: 02/25/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene | 4.65 | 0.0250 | 5.00 | ND | 93.0 | 54-133 | | | |
| Ethylbenzene | 4.53 | 0.0250 | 5.00 | ND | 90.6 | 61-133 | | | |
| Toluene | 4.65 | 0.0250 | 5.00 | ND | 93.0 | 61-130 | | | |
| o-Xylene | 4.54 | 0.0250 | 5.00 | ND | 90.8 | 63-131 | | | |
| p,m-Xylene | 9.23 | 0.0500 | 10.0 | ND | 92.3 | 63-131 | | | |
| Total Xylenes | 13.8 | 0.0250 | 15.0 | ND | 91.8 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.16 | | 8.00 | | 102 | 70-130 | | | |

Matrix Spike Dup (2408051-MSD1) Source: E402187-01 Prepared: 02/21/24 Analyzed: 02/25/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene | 4.82 | 0.0250 | 5.00 | ND | 96.4 | 54-133 | 3.52 | 20 | |
| Ethylbenzene | 4.70 | 0.0250 | 5.00 | ND | 94.0 | 61-133 | 3.64 | 20 | |
| Toluene | 4.82 | 0.0250 | 5.00 | ND | 96.4 | 61-130 | 3.64 | 20 | |
| o-Xylene | 4.71 | 0.0250 | 5.00 | ND | 94.3 | 63-131 | 3.71 | 20 | |
| p,m-Xylene | 9.56 | 0.0500 | 10.0 | ND | 95.6 | 63-131 | 3.59 | 20 | |
| Total Xylenes | 14.3 | 0.0250 | 15.0 | ND | 95.2 | 63-131 | 3.63 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.06 | | 8.00 | | 101 | 70-130 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0001 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/27/2024 9:09:22AM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2408051-BLK1) Prepared: 02/21/24 Analyzed: 02/25/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.30 | | 8.00 | | 91.3 | 70-130 | | | |

LCS (2408051-BS2) Prepared: 02/21/24 Analyzed: 02/25/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 46.6 | 20.0 | 50.0 | | 93.3 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.40 | | 8.00 | | 92.5 | 70-130 | | | |

Matrix Spike (2408051-MS2) Source: E402187-01 Prepared: 02/21/24 Analyzed: 02/25/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 44.8 | 20.0 | 50.0 | ND | 89.6 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 | | 8.00 | | 87.8 | 70-130 | | | |

Matrix Spike Dup (2408051-MSD2) Source: E402187-01 Prepared: 02/21/24 Analyzed: 02/25/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 47.4 | 20.0 | 50.0 | ND | 94.8 | 70-130 | 5.67 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.09 | | 8.00 | | 88.6 | 70-130 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0001 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/27/2024 9:09:22AM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2408087-BLK1) | | | | | Prepared: 02/23/24 Analyzed: 02/23/24 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 42.0 | | 50.0 | | 84.0 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2408087-BS1) | | | | | Prepared: 02/23/24 Analyzed: 02/23/24 | | | | |
| Diesel Range Organics (C10-C28) | 235 | 25.0 | 250 | | 94.0 | 38-132 | | | |
| Surrogate: n-Nonane | 41.2 | | 50.0 | | 82.4 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2408087-MS1) | | | | | Source: E402185-04 | | Prepared: 02/23/24 Analyzed: 02/23/24 | | |
| Diesel Range Organics (C10-C28) | 250 | 25.0 | 250 | ND | 100 | 38-132 | | | |
| Surrogate: n-Nonane | 42.7 | | 50.0 | | 85.5 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2408087-MSD1) | | | | | Source: E402185-04 | | Prepared: 02/23/24 Analyzed: 02/23/24 | | |
| Diesel Range Organics (C10-C28) | 234 | 25.0 | 250 | ND | 93.5 | 38-132 | 6.83 | 20 | |
| Surrogate: n-Nonane | 42.4 | | 50.0 | | 84.8 | 50-200 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0001 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/27/2024 9:09:22AM |

Anions by EPA 300.0/9056A

Analyst: DT

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

| | | | | | | | | | |
|---------------------------------|-----|------|-----|------|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2408072-BLK1) | | | | | Prepared: 02/22/24 Analyzed: 02/22/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2408072-BS1) | | | | | Prepared: 02/22/24 Analyzed: 02/22/24 | | | | |
| Chloride | 249 | 20.0 | 250 | | 99.5 | 90-110 | | | |
| Matrix Spike (2408072-MS1) | | | | | Source: E402190-02 | | Prepared: 02/22/24 Analyzed: 02/22/24 | | |
| Chloride | 275 | 20.0 | 250 | 25.4 | 99.9 | 80-120 | | | |
| Matrix Spike Dup (2408072-MSD1) | | | | | Source: E402190-02 | | Prepared: 02/22/24 Analyzed: 02/22/24 | | |
| Chloride | 275 | 20.0 | 250 | 25.4 | 100 | 80-120 | 0.0952 | 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: | North Thistle 15 CTB 2 | |
| 6488 7 Rivers Hwy | Project Number: | 01058-0001 | Reported: |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 02/27/24 09:09 |

- 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.



Page 14 of 15

Envirotech Analytical Laboratory

Printed: 2/21/2024 10:14:06AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

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

Date Received: 02/21/24 05:30
 Date Logged In: 02/20/24 16:37
 Due Date: 02/27/24 17:00 (4 day TAT)

Work Order ID: E402190
 Logged In By: Alexa Michaels

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: CourierSample 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 (pca sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

Sample E402190-02 has remarks on COC by client.

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: North Thistle 15 CTB 2

Work Order: E402246

Job Number: 01058-0007

Received: 2/27/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/28/24

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: 2/28/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: North Thistle 15 CTB 2
Workorder: E402246
Date Received: 2/27/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/27/2024 5:30:00AM, under the Project Name: North Thistle 15 CTB 2.

The analytical test results summarized in this report with the Project Name: North Thistle 15 CTB 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | | |
|-------------------------|------------------|------------------------|----------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 02/28/24 13:27 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| FS01 -0' | E402246-01A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |
| FS05 -0' | E402246-02A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |
| FS06 -0' | E402246-03A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |
| FS07 -0' | E402246-04A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |
| FS08 -0' | E402246-05A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |
| FS09 -0' | E402246-06A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |
| FS10 -0.5' | E402246-07A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |
| FS11 -0' | E402246-08A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |
| FS12 -0.5' | E402246-09A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |
| FS13 -0.5' | E402246-10A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |
| SS01B -0' | E402246-11A | Soil | 02/23/24 | 02/27/24 | Glass Jar, 2 oz. |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/28/2024 1:27:33PM |
|---|--|----------------------------------|

FS01 -0'

E402246-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 97.0 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.3 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KM | | Batch: 2409031 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/24 | 02/27/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 99.0 % | 50-200 | | 02/27/24 | 02/27/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2409032 | |
| Chloride | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |



Sample Data

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

Project Name: North Thistle 15 CTB 2
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/28/2024 1:27:33PM

FS05 -0'

E402246-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2409021 |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 96.7 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2409021 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.7 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2409031 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/24 | 02/27/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 103 % | 50-200 | | 02/27/24 | 02/27/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2409032 |
| Chloride | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/28/2024 1:27:33PM |
|---|--|----------------------------------|

FS06 -0'

E402246-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 97.8 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 91.9 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2409031 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/24 | 02/27/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: n-Nonane | 101 % | 50-200 | | 02/27/24 | 02/27/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2409032 | |
| Chloride | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |



Sample Data

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

Project Name: North Thistle 15 CTB 2
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/28/2024 1:27:33PM

FS07 -0'

E402246-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2409021 |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 96.7 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2409021 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.2 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2409031 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/24 | 02/28/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/24 | 02/28/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 108 % | 50-200 | | 02/27/24 | 02/28/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2409032 |
| Chloride | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |



Sample Data

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

Project Name: North Thistle 15 CTB 2
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/28/2024 1:27:33PM

FS08 -0'

E402246-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2409021 |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | 0.0828 | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | 0.194 | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | 0.324 | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | 0.518 | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 106 % | 70-130 | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2409021 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 92.4 % | 70-130 | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2409031 |
| Diesel Range Organics (C10-C28) | 579 | 25.0 | 1 | 02/27/24 | 02/28/24 | |
| Oil Range Organics (C28-C36) | 171 | 50.0 | 1 | 02/27/24 | 02/28/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 113 % | 50-200 | 02/27/24 | 02/28/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2409032 |
| Chloride | 230 | 20.0 | 1 | 02/27/24 | 02/27/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/28/2024 1:27:33PM |
|---|--|----------------------------------|

FS09 -0'

E402246-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 99.3 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 92.3 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2409031 | |
| Diesel Range Organics (C10-C28) | 35.6 | 25.0 | 1 | 02/27/24 | 02/28/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/24 | 02/28/24 | |
| Surrogate: n-Nonane | 109 % | 50-200 | | 02/27/24 | 02/28/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2409032 | |
| Chloride | 75.6 | 20.0 | 1 | 02/27/24 | 02/27/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/28/2024 1:27:33PM |
|---|--|----------------------------------|

FS10 -0.5'

E402246-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 98.9 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.7 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KM | | Batch: 2409031 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/24 | 02/28/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/24 | 02/28/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 108 % | 50-200 | | 02/27/24 | 02/28/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2409032 | |
| Chloride | 34.2 | 20.0 | 1 | 02/27/24 | 02/27/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/28/2024 1:27:33PM |
|---|--|----------------------------------|

FS11 -0'

E402246-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 98.8 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 92.3 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2409031 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/24 | 02/28/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/24 | 02/28/24 | |
| Surrogate: n-Nonane | 112 % | 50-200 | | 02/27/24 | 02/28/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2409032 | |
| Chloride | 80.6 | 20.0 | 1 | 02/27/24 | 02/27/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/28/2024 1:27:33PM |
|---|--|----------------------------------|

FS12 -0.5'
E402246-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 98.0 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 92.3 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2409031 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/24 | 02/28/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/24 | 02/28/24 | |
| Surrogate: n-Nonane | 109 % | 50-200 | | 02/27/24 | 02/28/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2409032 | |
| Chloride | 23.1 | 20.0 | 1 | 02/27/24 | 02/27/24 | |



Sample Data

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

Project Name: North Thistle 15 CTB 2
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/28/2024 1:27:33PM

FS13 -0.5'

E402246-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 100 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.4 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KM | | Batch: 2409031 | |
| Diesel Range Organics (C10-C28) | 36.0 | 25.0 | 1 | 02/27/24 | 02/28/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/24 | 02/28/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 107 % | 50-200 | | 02/27/24 | 02/28/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2409032 | |
| Chloride | 20.1 | 20.0 | 1 | 02/27/24 | 02/27/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210 | Project Name: North Thistle 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo | Reported: 2/28/2024 1:27:33PM |
|---|--|----------------------------------|

SS01B -0'

E402246-11

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Benzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Toluene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/24 | 02/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 98.2 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2409021 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/24 | 02/27/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 92.9 % | 70-130 | | 02/27/24 | 02/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2409031 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/24 | 02/28/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/24 | 02/28/24 | |
| Surrogate: n-Nonane | 109 % | 50-200 | | 02/27/24 | 02/28/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2409032 | |
| Chloride | 71.3 | 20.0 | 1 | 02/27/24 | 02/27/24 | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/28/2024 1:27:33PM |

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 (2409021-BLK1) Prepared: 02/27/24 Analyzed: 02/27/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| 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 | 7.78 | | 8.00 | | 97.3 | 70-130 | | | |

LCS (2409021-BS1) Prepared: 02/27/24 Analyzed: 02/27/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 5.13 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| Ethylbenzene | 5.01 | 0.0250 | 5.00 | | 100 | 70-130 | | | |
| Toluene | 5.13 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| o-Xylene | 5.07 | 0.0250 | 5.00 | | 101 | 70-130 | | | |
| p,m-Xylene | 10.2 | 0.0500 | 10.0 | | 102 | 70-130 | | | |
| Total Xylenes | 15.3 | 0.0250 | 15.0 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.61 | | 8.00 | | 95.1 | 70-130 | | | |

Matrix Spike (2409021-MS1) Source: E402246-05 Prepared: 02/27/24 Analyzed: 02/27/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--------|------|--------|--|--|--|
| Benzene | 4.89 | 0.0250 | 5.00 | ND | 97.9 | 54-133 | | | |
| Ethylbenzene | 4.93 | 0.0250 | 5.00 | 0.0828 | 96.9 | 61-133 | | | |
| Toluene | 4.92 | 0.0250 | 5.00 | ND | 98.4 | 61-130 | | | |
| o-Xylene | 5.22 | 0.0250 | 5.00 | 0.194 | 101 | 63-131 | | | |
| p,m-Xylene | 10.2 | 0.0500 | 10.0 | 0.324 | 98.8 | 63-131 | | | |
| Total Xylenes | 15.4 | 0.0250 | 15.0 | 0.518 | 99.4 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.58 | | 8.00 | | 107 | 70-130 | | | |

Matrix Spike Dup (2409021-MSD1) Source: E402246-05 Prepared: 02/27/24 Analyzed: 02/27/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--------|------|--------|------|----|--|
| Benzene | 4.72 | 0.0250 | 5.00 | ND | 94.4 | 54-133 | 3.65 | 20 | |
| Ethylbenzene | 4.76 | 0.0250 | 5.00 | 0.0828 | 93.5 | 61-133 | 3.48 | 20 | |
| Toluene | 4.75 | 0.0250 | 5.00 | ND | 95.0 | 61-130 | 3.54 | 20 | |
| o-Xylene | 5.06 | 0.0250 | 5.00 | 0.194 | 97.3 | 63-131 | 3.11 | 20 | |
| p,m-Xylene | 9.86 | 0.0500 | 10.0 | 0.324 | 95.4 | 63-131 | 3.37 | 20 | |
| Total Xylenes | 14.9 | 0.0250 | 15.0 | 0.518 | 96.0 | 63-131 | 3.29 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.60 | | 8.00 | | 107 | 70-130 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/28/2024 1:27:33PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2409021-BLK1) Prepared: 02/27/24 Analyzed: 02/27/24

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

LCS (2409021-BS2) Prepared: 02/27/24 Analyzed: 02/27/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 47.6 | 20.0 | 50.0 | | 95.2 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.56 | | 8.00 | | 94.5 | 70-130 | | | |

Matrix Spike (2409021-MS2) Source: E402246-05 Prepared: 02/27/24 Analyzed: 02/27/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 60.0 | 20.0 | 50.0 | ND | 120 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.45 | | 8.00 | | 93.1 | 70-130 | | | |

Matrix Spike Dup (2409021-MSD2) Source: E402246-05 Prepared: 02/27/24 Analyzed: 02/27/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|-------|----|--|
| Gasoline Range Organics (C6-C10) | 60.4 | 20.0 | 50.0 | ND | 121 | 70-130 | 0.674 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.41 | | 8.00 | | 92.7 | 70-130 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/28/2024 1:27:33PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2409031-BLK1) | | | | | Prepared: 02/27/24 Analyzed: 02/27/24 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 54.3 | | 50.0 | | 109 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2409031-BS1) | | | | | Prepared: 02/27/24 Analyzed: 02/27/24 | | | | |
| Diesel Range Organics (C10-C28) | 300 | 25.0 | 250 | | 120 | 38-132 | | | |
| Surrogate: n-Nonane | 58.3 | | 50.0 | | 117 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2409031-MS1) | | | | | Source: E402244-02 | | Prepared: 02/27/24 Analyzed: 02/27/24 | | |
| Diesel Range Organics (C10-C28) | 305 | 25.0 | 250 | ND | 122 | 38-132 | | | |
| Surrogate: n-Nonane | 59.2 | | 50.0 | | 118 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2409031-MSD1) | | | | | Source: E402244-02 | | Prepared: 02/27/24 Analyzed: 02/27/24 | | |
| Diesel Range Organics (C10-C28) | 309 | 25.0 | 250 | ND | 123 | 38-132 | 1.34 | 20 | |
| Surrogate: n-Nonane | 56.9 | | 50.0 | | 114 | 50-200 | | | |



QC Summary Data

| | | | |
|-------------------------|------------------|------------------------|---------------------|
| Devon Energy - Carlsbad | Project Name: | North Thistle 15 CTB 2 | Reported: |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 2/28/2024 1:27:33PM |

Anions by EPA 300.0/9056A

Analyst: DT

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

| | | | | | | | | | |
|---------------------------------|-----|------|-----|-----|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2409032-BLK1) | | | | | Prepared: 02/27/24 Analyzed: 02/27/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2409032-BS1) | | | | | Prepared: 02/27/24 Analyzed: 02/27/24 | | | | |
| Chloride | 247 | 20.0 | 250 | | 98.9 | 90-110 | | | |
| Matrix Spike (2409032-MS1) | | | | | Source: E402244-02 | | Prepared: 02/27/24 Analyzed: 02/27/24 | | |
| Chloride | 672 | 100 | 250 | 427 | 97.8 | 80-120 | | | |
| Matrix Spike Dup (2409032-MSD1) | | | | | Source: E402244-02 | | Prepared: 02/27/24 Analyzed: 02/27/24 | | |
| Chloride | 694 | 100 | 250 | 427 | 107 | 80-120 | 3.27 | 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: | North Thistle 15 CTB 2 | |
| 6488 7 Rivers Hwy | Project Number: | 01058-0007 | Reported: |
| Artesia NM, 88210 | Project Manager: | Ashley Giovengo | 02/28/24 13:27 |

- 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: North Thistle 15 CTB 2 | | Attention: Dale Woodall | | Lab WO# | | 1D 2D 3D | | Standard | |
| Project Manager: Ashley Giovengo | | Address: 205 E Bender Rd #150 | | E 402246 | | Job Number | | CWA SDWA | |
| Address: 3122 National Parks Hwy | | City, State, Zip: Hobbs NM, 88240 | | 01058-0007 | | X | | X-CH | |
| City, State, Zip: Carlsbad NM, 88220 | | Phone: (575) 748-1838 | | Analysis and Method | | | | RCRA | |
| Phone: 575-988-0055 | | Email: Dale.woodall@dnv.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 |
|--------------|--------------|--------|-------------------|-------------|------------|---------------------|--------------|-------------|-------------|----------------|----------|---------|---------|
| 6:54 | 2/23/2024 | S | 1 | FS01 - 0' | 1 | | | | | | X | | |
| 7:14 | 2/23/2024 | S | 1 | FS05 - 0' | 2 | | | | | | X | | |
| 7:16 | 2/23/2024 | S | 1 | FS06 - 0' | 3 | | | | | | X | | |
| 7:18 | 2/23/2024 | S | 1 | FS07 - 0' | 4 | | | | | | X | | |
| 9:10 | 2/23/2024 | S | 1 | FS08 - 0' | 5 | | | | | | X | | |
| 9:14 | 2/23/2024 | S | 1 | FS09 - 0' | 6 | | | | | | X | | |
| 12:26 | 2/23/2024 | S | 1 | FS10 - 0.5' | 7 | | | | | | X | | |
| 9:20 | 2/23/2024 | S | 1 | FS11 - 0' | 8 | | | | | | X | | |
| 12:31 | 2/23/2024 | S | 1 | FS12 - 0.5' | 9 | | | | | | X | | |
| 0.6583 | 2/23/2024 | S | 1 | FS13 - 0.5' | 10 | | | | | | X | | |

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, Dale.woodall@dnv.com, chamilton@ensolum.com, ehaff@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> | | 02/26/24 | 1040 | <i>[Signature]</i> | | 2-26-24 | 1040 | 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>[Signature]</i> | | 2-26-24 | 1545 | <i>[Signature]</i> | | 2-26-24 | 1630 | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | AVG Temp °C | | | |
| <i>[Signature]</i> | | 2-26-24 | 2300 | <i>[Signature]</i> | | 2-27-24 | 0536 | 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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|----------|-------------------|--------------------------|------------|-----------------------------------|--------------|------------------------------|-------------|---------------------|------|---|----------|-----------------------|---------|------------------------------|-----|---------|------|--------------------------|-------------|---------|------|--|
| Client: Devon Energy | | | | | | Bill To | | | | Lab Use Only | | | | | | | TAT | | | | EPA Program | | | |
| Project: North Thistle 15 CTB 2 | | | | | | Attention: Dale Woodall | | | | Lab WO# E 402246 | | | | Job Number D1058-0007 | | | | 1D | 2D | 3D | Standard | CWA | SDWA | |
| Project Manager: Ashley Giovengo | | | | | | Address: 205 E Bender Rd #150 | | | | | | | | | | | | X | | *CH | | | | |
| 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 | | | | | | | | | | | | | | | | | | |
| Phone: 575-988-0055 | | | | | | Email: Dale.woodall@dvn.com | | | | | | | | | | | | | | | | | | |
| 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 | | NM | CO | UT | AZ | TX | Remarks | | |
| 13:23 | 2/23/2024 | S | 1 | SS01B - 0' | 11 | | | | | | | | X | | | | X | | | | | | | |
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| Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, Dale.woodall@dvn.com, chamilton@ensolum.com, ehaft@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 | Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | |
| [Signature] | | 02/26/24 | 1040 | [Signature] | | 2-26-24 | 1040 | [Signature] | | 2-26-24 | 1630 | [Signature] | | 2-27-24 | 0530 | [Signature] | | 2-27-24 | 0530 | [Signature] | | 2-27-24 | 0530 | |
| [Signature] | | 2-26-24 | 1545 | [Signature] | | 2-26-24 | 1630 | [Signature] | | 2-26-24 | 1630 | [Signature] | | 2-26-24 | 1630 | [Signature] | | 2-26-24 | 1630 | [Signature] | | 2-26-24 | 1630 | |
| [Signature] | | 2-26-24 | 2300 | [Signature] | | 2-26-24 | 2300 | [Signature] | | 2-26-24 | 2300 | [Signature] | | 2-26-24 | 2300 | [Signature] | | 2-26-24 | 2300 | [Signature] | | 2-26-24 | 2300 | |
| 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: 2/27/2024 8:05:30AM

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: | 02/27/24 05:30 | Work Order ID: | E402246 |
| Phone: | (505) 382-1211 | Date Logged In: | 02/26/24 16:37 | Logged In By: | Alexa Michaels |
| Email: | ashley.giovengo@wescominc.com | Due Date: | 02/28/24 17:00 (1 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.



APPENDIX E

Email Correspondence

From: [Woodall, Dale](#)
To: [Ashley Giovengo](#)
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 308147
Date: Thursday, January 25, 2024 4:23:30 PM

[**EXTERNAL EMAIL**]

fyi

Dale Woodall
Environmental Professional
Hobbs, NM
Office: 575-748-1838
Mobile: 405-318-4697
Dale.Woodall@dvn.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, January 25, 2024 4:23 PM
To: Woodall, Dale <Dale.Woodall@dvn.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 308147

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

The OCD has received the submitted *Notification for Liner Inspection for a Release (C-141L)*, for incident ID (n#) nAPP2335632633.

The liner inspection is expected to take place:

When: 02/01/2024 @ 09:30

Where: M-15-23S-33E 415 FSL 760 FWL (32.29849,-103.56582)

Additional Information: Ashley Giovengo
Senior Engineer
575-988-0055
agiovengo@ensolum.com

Additional Instructions: Lat/Long: 32.301104, -103.558861. Tank Containment

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. 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 liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.**

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

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From: [Woodall, Dale](#)
To: [Ashley Giovengo](#)
Subject: RE: [EXTERNAL] North Thistle 15 CTB 2 - 48-hour confirmation sampling notification - nAPP2335632633
Date: Thursday, February 15, 2024 1:24:47 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

What is the sampling surface area in square feet

Dale Woodall
Environmental Professional
Hobbs, NM
Office: 575-748-1838
Mobile: 405-318-4697
Dale.Woodall@dvn.com

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, February 15, 2024 8:49 AM
To: Woodall, Dale <Dale.Woodall@dvn.com>
Subject: [EXTERNAL] North Thistle 15 CTB 2 - 48-hour confirmation sampling notification - nAPP2335632633

Dale,

Please submit a 48-hour confirmation sampling notification for the North Thistle 15 CTB 2. Please see the site information listed below.

When: 02/19/2024 @ 09:00 am MST and 02/20/2024 @ 09:00 MST
Where: M-15-23S-33E (32.301104,-103.558861)
Number of Samples: 12

Additional Information: N/A

Additional Instructions: 32. 301104° N, -103.558861° W

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f 

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From: [Woodall, Dale](#)
To: [Ashley Giovengo](#)
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 315949
Date: Tuesday, February 20, 2024 9:57:42 AM

[**EXTERNAL EMAIL**]

Dale Woodall
Environmental Professional
Hobbs, NM
Office: 575-748-1838
Mobile: 405-318-4697
Dale.Woodall@dvn.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, February 20, 2024 9:57 AM
To: Woodall, Dale <Dale.Woodall@dvn.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 315949

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#) nAPP2335632633.

The sampling event is expected to take place:

When: 02/23/2024 @ 09:00

Where: M-15-23S-33E 415 FSL 760 FWL (32.29849,-103.56582)

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

Additional Instructions: 32. 301104° N, -103.558861° W

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

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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 322328

QUESTIONS

| | |
|---|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 322328 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | |

QUESTIONS

| | |
|-------------------|---|
| Prerequisites | |
| Incident ID (n#) | nAPP2335632633 |
| Incident Name | NAPP2335632633 NORTH THISTLE 15 CTB 2 @ 0 |
| Incident Type | Oil Release |
| Incident Status | Remediation Closure Report Received |
| Incident Facility | [fAPP2122855485] NORTH THISTLE 15 CTB 2 |

| | |
|--|------------------------|
| Location of Release Source | |
| Please answer all the questions in this group. | |
| Site Name | NORTH THISTLE 15 CTB 2 |
| Date Release Discovered | 12/21/2023 |
| Surface Owner | State |

| | |
|--|-------------|
| 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 Production Tank Crude Oil Released: 31 BBL Recovered: 30 BBL Lost: 1 BBL. |
| Produced Water Released (bbls) Details | Not answered. |
| Is the concentration of chloride in the produced water >10,000 mg/l | No |
| 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 water dump hung open on a three phase separator and pressure hit the gun barrel to leak out the thief hatch. The level controller was adjusted to stop the leak 30 bbls were recovered. There was overspray that breached the containment and reached the pad. |

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District IV

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

QUESTIONS, Page 2

Action 322328

QUESTIONS (continued)

| | | |
|---|----------------|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: | 6137 |
| | Action Number: | 322328 |
| | Action Type: | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | | |

QUESTIONS

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

Initial Response

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

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

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

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

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 03/12/2024 |
|--|--|

District I

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

QUESTIONS, Page 3

Action 322328

QUESTIONS (continued)

| | |
|---|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 322328 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

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 51 and 75 (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 |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas: | |
| A continuously flowing watercourse or any other significant watercourse | Between ½ and 1 (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 | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Greater than 5 (mi.) |
| Any other fresh water well or spring | Greater than 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between 1 and 5 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Greater than 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) | 1040 |
| TPH (GRO+DRO+MRO) | (EPA SW-846 Method 8015M) | 35 |
| GRO+DRO | (EPA SW-846 Method 8015M) | 35 |
| BTEX | (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene | (EPA SW-846 Method 8021B or 8260B) | 0 |

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

| | |
|---|------------|
| On what estimated date will the remediation commence | 02/19/2024 |
| On what date will (or did) the final sampling or liner inspection occur | 02/01/2024 |
| On what date will (or was) the remediation complete(d) | 02/23/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed | 2394 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 20 |
| What is the estimated surface area (in square feet) that will be remediated | 2394 |
| What is the estimated volume (in cubic yards) that will be remediated | 20 |

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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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 322328

QUESTIONS (continued)

| | |
|---|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 322328 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | |

QUESTIONS

| | |
|--|--|
| Remediation Plan (continued) | |
| <i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i> | |
| This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: | |
| <i>(Select all answers below that apply.)</i> | |
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for off-site disposal | OWL LANDFILL JAL [fJEG1635837366] |
| OR which OCD approved well (API) will be used for off-site disposal | Not answered. |
| OR is the off-site disposal site, to be used, out-of-state | Not answered. |
| OR is the off-site disposal site, to be used, an NMED facility | Not answered. |
| (Ex Situ) Excavation and on-site 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: 03/12/2024 |
| <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 322328

QUESTIONS (continued)

| | |
|---|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 322328 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

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

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QUESTIONS, Page 6

Action 322328

QUESTIONS (continued)

| | | |
|---|----------------|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: | 6137 |
| | Action Number: | 322328 |
| | Action Type: | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | | |

QUESTIONS

| Sampling Event Information | |
|---|------------|
| Last sampling notification (C-141N) recorded | 315949 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 02/23/2024 |
| What was the (estimated) number of samples that were to be gathered | 12 |
| What was the sampling surface area in square feet | 2395 |

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 | Yes |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion | Yes |
| What was the total surface area (in square feet) remediated | 2394 |
| What was the total volume (cubic yards) remediated | 20 |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes |
| What was the total surface area (in square feet) reclaimed | 2394 |
| What was the total volume (in cubic yards) reclaimed | 20 |
| Summarize any additional remediation activities not included by answers (above) | see report |

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 03/12/2024 |
|--|--|

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QUESTIONS, Page 7

Action 322328

QUESTIONS (continued)

| | |
|---|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 322328 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|---|----|
| Reclamation Report | |
| Only answer the questions in this group if all reclamation steps have been completed. | |
| Requesting a reclamation approval with this submission | No |

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CONDITIONS

Action 322328

CONDITIONS

| | |
|---|----------------|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: |
| | 6137 |
| | Action Number: |
| | 322328 |
| Action Type: | |
| [C-141] Remediation Closure Request C-141 (C-141-v-Closure) | |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|--|----------------|
| scott.rodgers | This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete". | 5/16/2024 |
| scott.rodgers | The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. | 5/16/2024 |