



December 18, 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: Deferral Request
Spica 25 Federal #004H
Incident Number nAPP2409940657
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company, LP (Devon), has prepared this *Deferral Request* to document assessment, excavation, and soil sampling activities at the Spica 25 Federal #004H (Site). 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 on to the well pad and an adjacent off-pad area to the north and east of the pad at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Devon is submitting this *Deferral Request*, describing Site assessment, delineation and excavation activities that have occurred to date and requesting deferral of final remediation for Incident Number nAPP2409940657 until the Site is reconstructed and/or the well pad is abandoned.

SITE CHARACTERIZATION AND RELEASE SUMMARY

The Site is located in Unit A, Section 26, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.638033°, -103.832220°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 7, 2024, a model 30 PS/UL pop off valve failed in a production tank, resulting in the release of approximately 69.3 barrels (bbls) of crude oil in and misting an area outside of the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 63 bbls of crude oil were recovered from within the lined containment. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on April 9, 2024. The release was assigned Incident Number nAPP2409940657. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD) District II Office on November 18, 2024. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery on November 21, 2024. Upon inspection, the liner was determined to be insufficient. Two holes were found in the lined secondary containment which allowed crude oil to impact the soil under the containment area.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-01939 POD1 with a depth to water measurement greater than 55 feet below ground surface (bgs). The well is located 0.27 miles south of the Site and the most recent documented water level measurement was collected on April 6, 2023. All wells used for depth to groundwater determinations are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 1.55 miles north 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
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On April 12, 2024, Ensolum personnel visited the Site to evaluate the release extent and collect lateral delineation samples. Eight lateral delineation soil samples (SS01 through SS08) were collected around the tank battery containment at the ground surface level. The soil samples were field screened for TPH utilizing a PetroFLAG® soil analyzer system and chloride using the MOHR method titration. 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.

DELINEATION ACTIVITIES

On May 24, 2024, Ensolum personnel returned to the Site to conduct delineation activities. Six boreholes (BH01 through BH06) were advanced in the impacted areas on and off-pad. Boreholes BH01 through BH06 were advanced via hand auger; boreholes BH05 and BH06 were advanced to a depth of 1-foot bgs, borehole BH04 was advanced to a depth of 2 feet bgs, borehole BH01 was advanced to a depth of 4 feet bgs, and boreholes BH02 and BH03 were advanced to a depth of 8 feet bgs. Soil from the boreholes was field screened for chloride and TPH utilizing Hach® Chloride QuanTab® Test Strips and a PetroFLAG® soil analyzer system, respectively. Refusal was encountered throughout the Site at depths ranging from 4 feet to 8 feet bgs.

On July 18, 2024, Ensolum personnel returned to the Site to resample in the vicinity of lateral delineation soil sample SS06 and boreholes BH01 through BH03. The original samples contained elevated concentrations of chloride just above the Closure Criteria. Ensolum personnel stepped out 2 feet from the original sample location and delineation soil sample SS06A was collected. Delineation boreholes that had previously hit refusal were advanced further via backhoe. Borehole BH01 was advanced to 7 feet bgs, borehole BH02 was advanced to 9 feet bgs, and borehole BH03 was advanced to 12 feet bgs. Soil samples from the delineation sampling events conducted on May 24 and July 18, 2024, were handled and analyzed in the same manner 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 each foot from BH01 through BH06 beginning at ground surface to their terminal depths and submitted for laboratory analysis.

On October 3, 2025, and November 11, 2025, Ensolum personnel collected delineation boreholes BH07 and BH08 in the vicinity of the Site deferral areas. Borehole BH07 and BH08 were advanced via hand auger to depths of 4 feet and 3 feet bgs, respectively. The soil samples were field screened for TPH and chloride. All samples were handled and analyzed following the same procedures as described above.

On November 21, 2024, Ensolum personnel visited the Site to conduct a liner integrity inspection and delineation. Ensolum personnel verified the presence of two tears in the containment liner and it was determined the liner was insufficient and did not have the ability to contain the release in question. Two boreholes, BH09 and BH10, were advanced via hand auger to a depth of 3 feet bgs. The soil samples were field screened for TPH and chloride. All samples were handled and analyzed following the same procedures as described above. The soil sample locations were mapped utilizing a handheld 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.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS06A, collected around the perimeter of the release area, indicated all COC concentrations were compliant with Site Closure Criteria and reclamation requirement at ground surface except for SS06, which was recollected as SS06A. Results for boreholes BH01 through BH03 and BH05 indicated all concentrations for TPH exceeded Site Closure Criteria at ground surface but were in compliance with the Site Closure Criteria at 4 feet bgs. Boreholes BH04 and BH06 were in compliance with Site Closure Criteria and reclamation requirements at ground surface and 1-foot bgs, respectively. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

EXCAVATION ACTIVITIES

Beginning on October 21, 2024, Ensolum personnel oversaw the excavation of impacted soil from the release area outside of the lined tank battery containment. Excavation activities were performed via hydro-vac, tracked excavator, front end loader, and hand crew to depths ranging from ground surface to 5 feet bgs. To direct excavation activities, soil was field screened for chloride as previously described above. Photographic documentation is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 400 square feet from the floor of the excavation. A confirmation sampling variance was approved by NMOCD on October 18, 2024. 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 FS151) were collected from the floor of the excavation. Sidewall samples (SW01 through SW11) were collected from the walls of the excavation area every 200 square feet that exceeded 1-foot bgs and were not adjacent to surround floor composite samples at depths ranging from ground surface to 5 feet bgs. 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 3,458 cubic yards of soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all excavation floor soil samples, except FS07 and FS26, collected at depths ranging from ground surface to 5 feet bgs, and for sidewall soil samples SW01 through SW11, collected from ground surface to 5 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria for the samples collected on pad and the reclamation requirement for those collected in the top 4 feet of soil located off-pad. Samples FS07 and FS26 exceeded Site Closure Criteria for GRO+DRO and Total TPH but were located directly beneath and around active production equipment and were excavated to the maximum extent practicable (MEP) without jeopardizing the structural integrity of surrounding production equipment. Laboratory analytical results are summarized in Tables 2 and 3 and the complete laboratory analytical reports are included as Appendix D.

DEFERRAL REQUEST

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

Impacted soil remaining in place beneath the liner and production equipment, which is delineated vertically by delineation soil samples BH07 through BH10, collected to a depth of 3 feet bgs, and laterally by delineation soil samples SS07, SS08, floor sample areas FS23, FS25, FS27 FS28, FS31, FS30, and Sidewall samples SW06, SW07 through SS06A, collected at the ground level. Laboratory analytical results from sidewall soil samples SW01 through SW11 confirm the presence of impacted and waste containing soil is limited to beneath the lined tank battery containment and surrounding production equipment. Approximately 343 cubic yards of chloride impacted soil remains in place beneath the containment liner based on a 3-foot depth determined through delineation and confirmation soil sampling. The remaining impacted soil outside of containment beneath production equipment is

Devon Energy Production Company, LP
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Deferral Request Report



approximately 56 cubic yards and extends to a depth of 2 feet bgs based on delineation soil samples BH07 and BH08. The impacted soil volume estimate includes waste-containing soil volumes to be addressed through reconstruction of the containment or final pad reclamation.

Devon does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 55 feet bgs, and the impacted soil remaining in place is limited to the area immediately beneath the liner and production equipment. The liner has been repaired by Devon and will restrict future vertical migration of residual impacts and any interactions with humans and/or wildlife.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Devon requests deferral of final remediation for Incident Number nAPP2409940657 until final reclamation of the well pad or major construction, whichever comes first. Remedial actions completed to date have been protective of human health, the environment, and groundwater and deferment of impacted soil beneath the lined containment appears to be equally protective and warranting deferment. Notifications submitted to the NMOCD are included in Appendix E.

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".

Ashely Giovengo
Senior Scientist

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

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

cc: Jim Raley, Devon








Appendices:

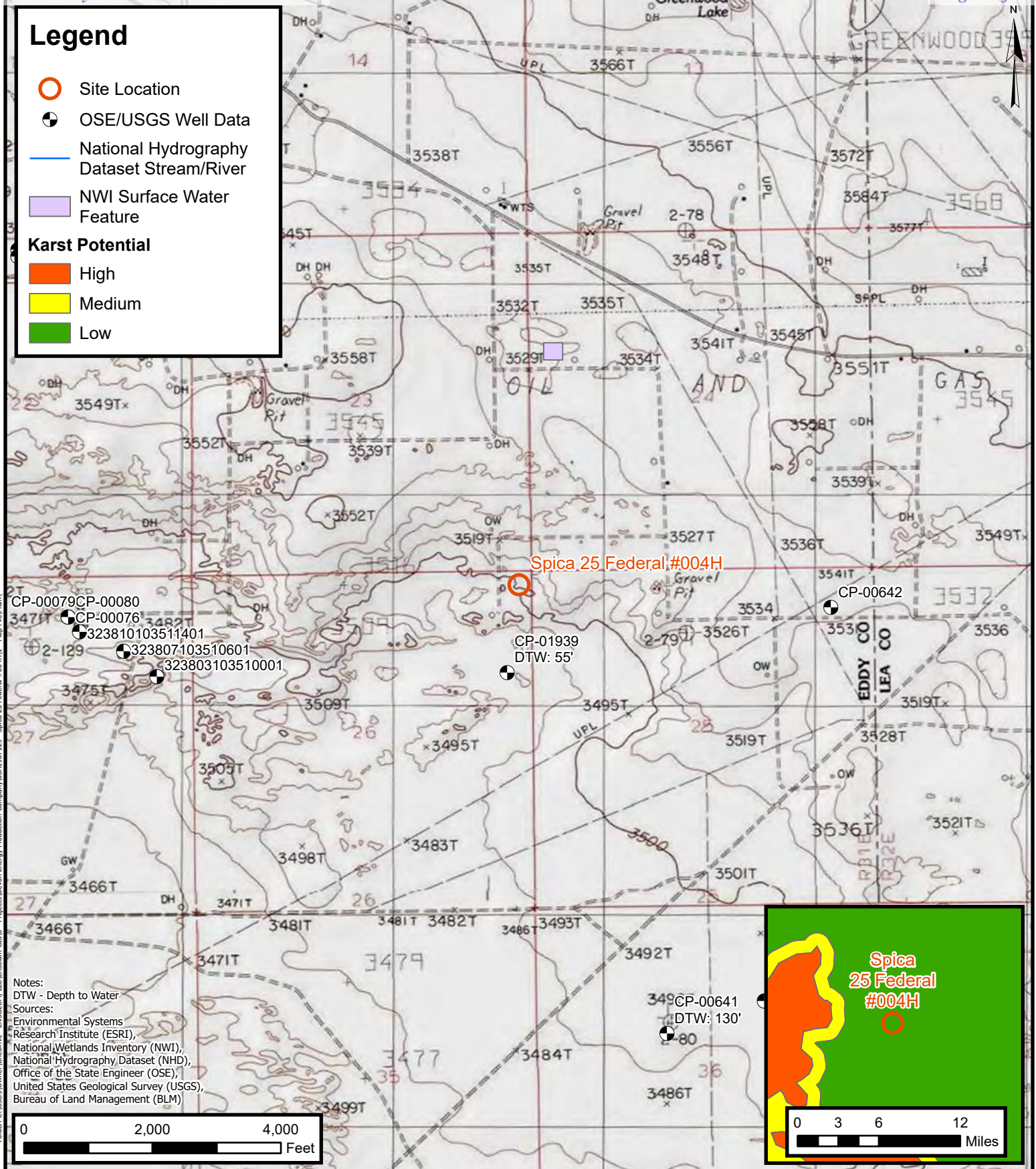
Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Delineation Soil Sample Analytical Results
Table 2	Confirmation Soil Sample Analytical Results
Table 3	Sidewall Soil Sample Analytical Results
Appendix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



FIGURES

Legend

-  Site Location
-  OSE/USGS Well Data
-  National Hydrography Dataset Stream/River
-  NWI Surface Water Feature
- Karst Potential**
 -  High
 -  Medium
 -  Low



Site Receptor Map

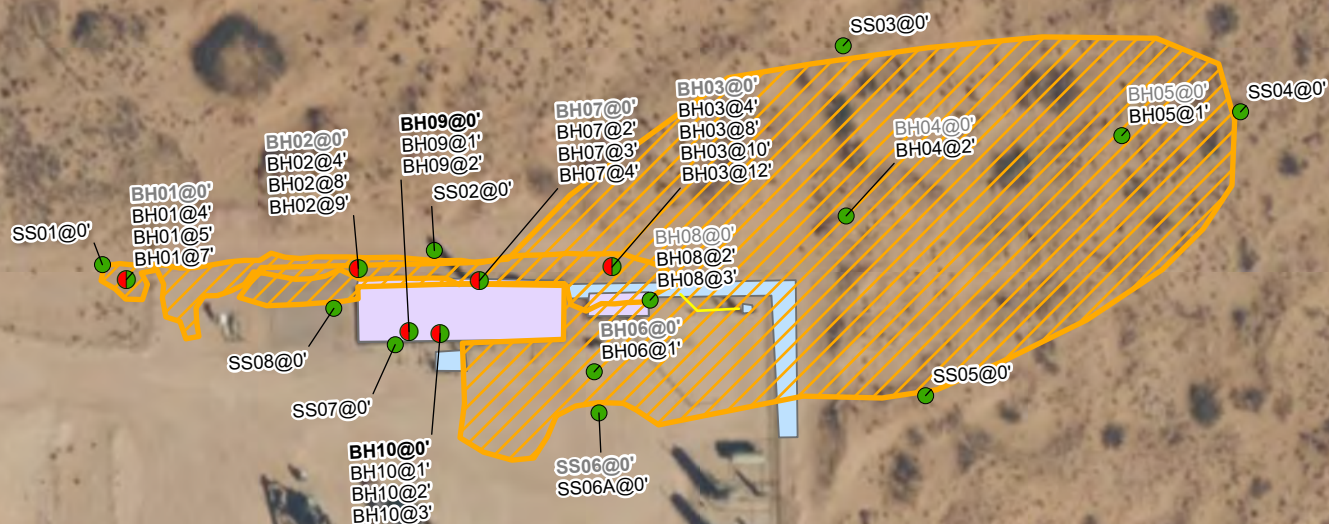
Devon Energy Production Company
Spica 25 Federal #004H
Incident Number: nAPP2409940657
Unit A, Section 26, T 19S, R 31E
Eddy County, New Mexico

FIGURE

1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Oil and Gas Utility Line
- ▨ Release Extent
- Metal Berm
- Deferral Area
- Production Equipment

**Notes:**

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

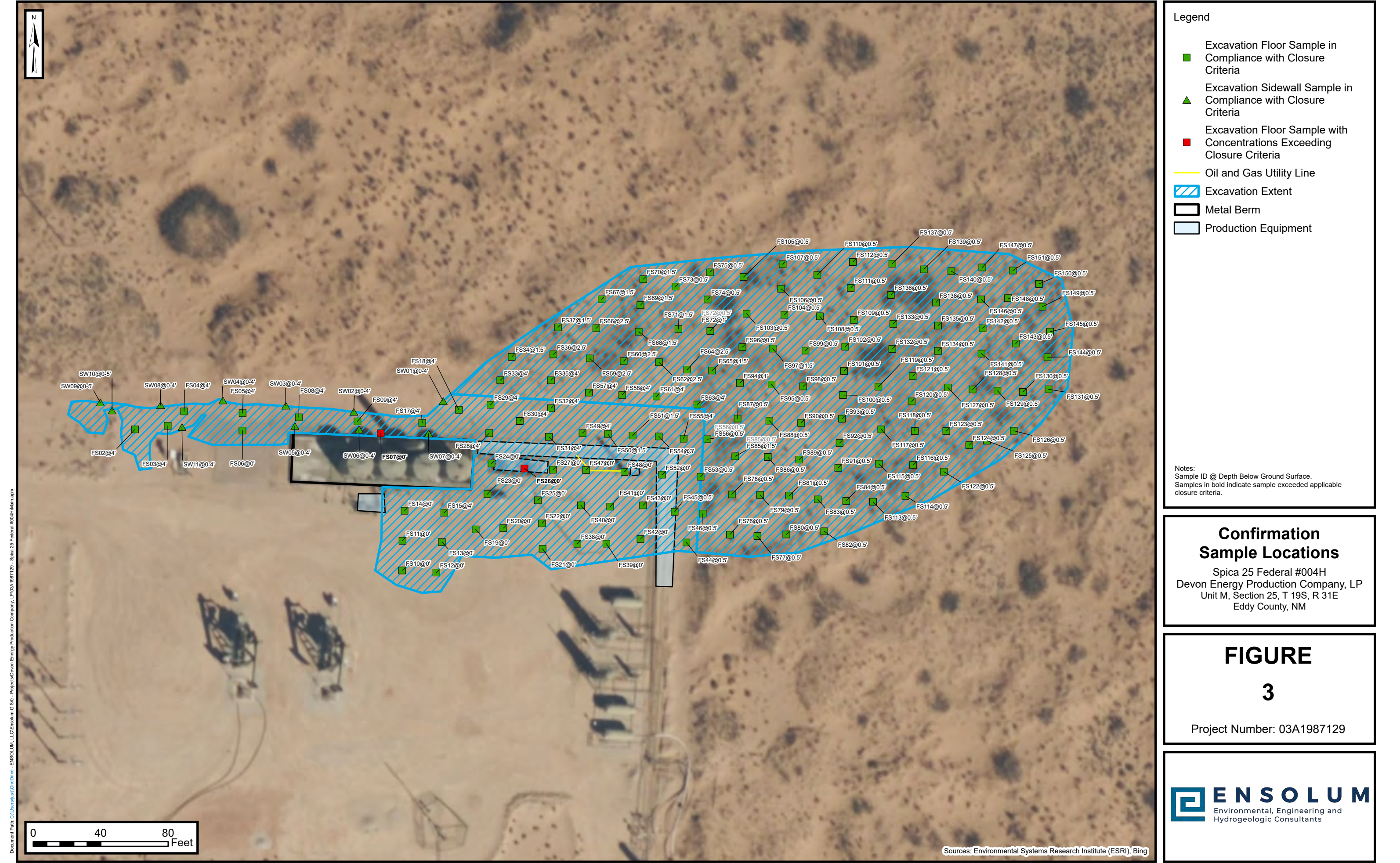
0 25 50 100 150 200
 Feet

Sources: Environmental Systems Research Institute (ESRI)

**Delineation Soil Sample Locations**

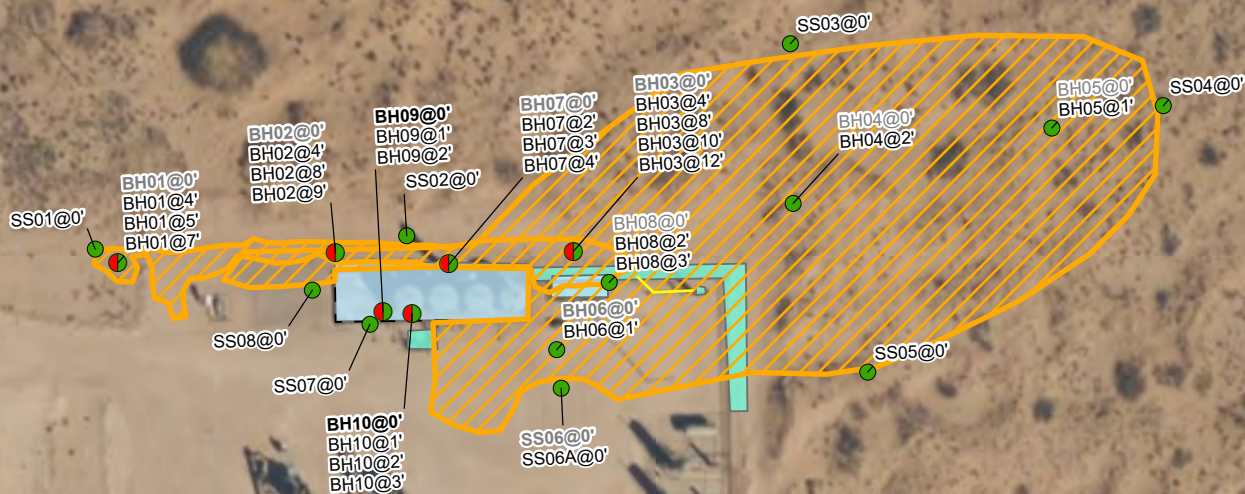
Devon Energy Production Company, LP
 Spica 25 Federal #004H
 Incident Number: nAPP2409940657
 Unit A, Section 26, T 19S, R 31E
 Eddy County, New Mexico

FIGURE
2



Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Oil and Gas Utility Line
- ▨ Release Extent
- Metal Berm
- Deferral Area
- Production Equipment



Notes:
Sample ID @ Depth Below Ground Surface.

0 25 50 100 150 200
Feet

Sources: Environmental Systems Research Institute (ESRI)



Area of Requested Deferral

Devon Energy Production Company, LP
Spica 25 Federal #004H
Incident Number: nAPP2409940657
Unit A, Section 26, T 19S, R 31E
Eddy County, New Mexico

FIGURE

4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Spica 25 Federal #004H
 Devon Energy Production Company, LP
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
SS01	4/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS02	4/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS03	4/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS04	4/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS05	4/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS06	4/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	615
SS06A	5/24/2024	0	0.0795	5.7095	21	34.6	<50.0	55.6	55.6	73.9
SS07	4/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	26.4
SS08	4/12/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	84.9
BH01	5/24/2024	0	1.430	302.73	2,140	14,900	6,670	8,810	23,710	<20.0
BH01	5/24/2024	4	<0.0250	0.9960	<20.0	797	493	797	1,290	<20.0
BH01	7/18/2024	5	0.147	0.714	<20.0	567	161	567	728	26.5
BH01	7/18/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BH02	5/24/2024	0	8.360	574	3,220	26,000	11,500	29,220	40,720	21.6
BH02	5/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	136
BH02	5/24/2024	8	<0.0250	<0.0500	<20.0	266	187	266	453	<20.0
BH02	7/18/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	78.2
BH03	5/24/2024	0	<0.0250	<0.0500	1,650	6,300	3,350	7,950	11,300	59.6
BH03	5/24/2024	4	<0.0250	<0.0500	<20.0	63.1	75	63.1	138.1	3,020
BH03	5/24/2024	8	<0.0250	<0.0500	<20.0	82.8	73.7	82.8	156.5	236
BH03	7/18/2024	10	<0.0250	<0.0500	<20.0	26.7	<50.0	26.7	26.7	647
BH03	7/18/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	469
BH04	5/24/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BH04	5/24/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BH05	5/24/2024	0	<0.0250	<0.0500	<20.0	60.7	73.6	60.7	134.3	<20.0
BH05	5/24/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BH06	5/24/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	63.2
BH06	5/24/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	58.9



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Spica 25 Federal #004H
 Devon Energy Production Company, LP
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
BH07	10/30/2024	0	<0.0250	0.2043	<20.0	14,100	5,670	14,100	19,770	87.7
BH07	10/30/2024	2	<0.0250	0.1179	27	44.7	<50.0	71.7	71.7	43.4
BH07	10/30/2024	3	<0.0250	0.0398	<20.0	<25.0	<50.0	<20.0	<20.0	152
BH07	10/30/2024	4	<0.0250	0.0516	<20.0	<25.0	<50.0	<20.0	<20.0	332
BH08	11/8/2024	0	<0.0250	<0.0500	<20.0	204	141	204	345	138
BH08	11/8/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	164
BH08	11/8/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	365
BH09	11/21/2024	0	<0.0250	5.415	139	14,700	8,150	14,839	22,989	29.8
BH09	11/21/2024	1	<0.0250	<0.0500	<20.0	65.5	75.8	65.5	141.3	295
BH09	11/21/2024	2	<0.0250	<0.0500	<20.0	50.9	<50.0	50.9	50.9	72.7
BH10	11/21/2024	0	<0.0250	<0.0500	91.3	5,270	2,820	5,361	8,181	47.1
BH10	11/21/2024	1	<0.0250	0.0785	30.8	1,270	555	1,301	1,856	47.1
BH10	11/21/2024	2	<0.0250	<0.0500	<20.0	424	209	424	633	74.2
BH10	11/21/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	40.3

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
 Spica 25 Federal #004H
 Devon Energy Production Company, LP
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
FS01	11/8/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	23.3
FS02	11/8/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	26.3
FS03	11/8/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	63.5
FS04	11/8/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS05	10/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	20.2
FS06	10/29/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	35.8
FS07	11/7/2024	0	<0.0250	<0.0500	<20.0	2,830	1,170	2,830	4,000	2,190
FS08	10/25/2024	4	<0.0250	<0.0500	<20.0	82.2	52.1	82.2	134.3	58
FS09	10/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS10	10/29/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	261
FS11	10/29/2024	0	<0.0250	<0.0500	<20.0	76.4	64.8	76.4	141.2	418
FS12	10/29/2024	0	<0.0250	<0.0500	<20.0	99.0	113	99.0	212	594
FS13	10/29/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,740
FS14	10/29/2024	0	<0.0250	<0.0500	<20.0	34.9	<50.0	34.9	34.9	432
FS15	10/25/2024	4	<0.0250	<0.0500	<20.0	42.6	<50.0	42.6	42.6	1,900
FS16	11/7/2024	0	<0.0250	<0.0500	<20.0	76.3	<50.0	76.3	76.3	2,180
FS17	10/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	23.2
FS18	10/25/2024	4	<0.0250	<0.0500	<20.0	45.4	<50.0	45.4	45.4	430
FS19	10/25/2024	0	<0.0250	<0.0500	<20.0	27.1	<50.0	27.1	27.1	979
FS20	10/25/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,430
FS21	10/25/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	94.8
FS22	10/25/2024	0	<0.0250	<0.0500	<20.0	115	97.2	115	212.2	589
FS23	11/7/2024	0	<0.0250	<0.0500	<20.0	657	525	657	1,182	2,130
FS24	11/7/2024	0	<0.0250	<0.0500	<20.0	194	240	194	434	1,140
FS25	10/25/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	147
FS26	11/7/2024	0	<0.0250	<0.0500	<20.0	3,460	2,190	3,460	5,650	308
FS27	11/7/2024	0	<0.0250	<0.0500	<20.0	181	168	181	349	168
FS28	10/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	3,380
FS29	10/24/2024	4	<0.0250	<0.0500	<20.0	92.2	76	92.2	168.2	41.9

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Spica 25 Federal #004H
 Devon Energy Production Company, LP
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
FS30	10/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	89.6
FS31	10/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,180
FS32	10/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS33	10/25/2024	4	<0.0250	<0.0500	<20.0	66.8	<50.0	66.8	66.8	<20.0
FS34	11/5/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS35	10/25/2024	4	<0.0250	<0.0500	<20.0	65.3	<50.0	65.3	65.3	28.8
FS36	11/6/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS37	11/5/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS38	10/25/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	438
FS39	10/25/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	713
FS40	10/25/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	781
FS41	10/25/2024	0	<0.0250	<0.0500	<20.0	38.1	<50.0	38.1	38.1	735
FS42	10/25/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,530
FS43	10/25/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	3,620
FS44	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS45	11/5/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS46	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS47	11/7/2024	0	<0.0250	<0.0500	<20.0	327	216	327	543	1,020
FS48	11/7/2024	0	<0.0250	<0.0500	<20.0	39.1	<50.0	39.1	39.1	2,760
FS49	10/24/2024	4	<0.0250	<0.0500	<20.0	124	83	124	207	128
FS50	11/4/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	22.0
FS51	11/4/2024	1.5	<0.0250	<0.0500	<20.0	50.1	<50.0	50.1	50.1	31.2
FS52	11/7/2024	0	<0.0250	<0.0500	<20.0	85.8	72.2	158	158	158
FS53	10/23/2024	0.5	<0.0250	<0.0500	<20.0	43.8	50.8	43.8	94.6	<20.0
FS54	11/6/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS55	11/6/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS56	10/23/2024	0.5	<0.0250	<0.0500	<20.0	275	249	275	524	<20.0
FS56	11/4/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	25.1
FS57	10/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Spica 25 Federal #004H
 Devon Energy Production Company, LP
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
FS58	11/1/2024	4	<0.0250	<0.0500	<20.0	586	404	586	990	<20.0
FS59	11/6/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS60	11/6/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS61	11/1/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS62	11/6/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS63	11/1/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS64	11/6/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS65	11/5/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS66	11/6/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS67	11/6/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS68	11/6/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS69	11/6/2024	1.5	<0.0250	<0.0500	<20.0	27.4	<50.0	27.4	27.4	<20.0
FS70	11/5/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS71	11/5/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS72	10/24/2024	0.5	<0.0250	<0.0500	<20.0	83.2	91.6	83.2	174.8	<20.0
FS72	12/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS73	10/29/2024	0.5	<0.0250	<0.0500	<20.0	25.9	<50.0	25.9	25.9	<20.0
FS74	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS75	10/29/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS76	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS77	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS78	10/22/2024	0.5	<0.0250	<0.0500	<20.0	29.5	<50.0	29.5	29.5	<20.0
FS79	10/22/2024	0.5	<0.0250	<0.0500	<20.0	31.0	<50.0	31.0	31.0	<20.0
FS80	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS81	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS82	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS83	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS84	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS85	10/22/2024	0.5	<0.0250	<0.0500	<20.0	59.5	68.2	59.5	127.7	<20.0
FS85	11/5/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Spica 25 Federal #004H
 Devon Energy Production Company, LP
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOC Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
FS86	10/22/2024	0.5	<0.0250	<0.0500	<20.0	28.2	<50.0	28.2	28.2	<20.0
FS87	11/5/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS88	11/5/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS89	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS90	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS91	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS92	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS93	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS94	11/7/2024	1	<0.0250	<0.0500	<20.0	26.0	<50.0	26.0	26.0	<20.0
FS95	11/5/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS96	11/4/2024	0.5	<0.0250	0.0854	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS97	11/5/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS98	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS99	10/29/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS100	10/29/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS101	10/29/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS102	10/29/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS103	10/29/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS104	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS105	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS106	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS107	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS108	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS109	11/6/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS110	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS111	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS112	10/24/2024	0.5	<0.0250	<0.0500	<20.0	35.6	55.8	35.6	91.4	<20.0
FS113	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS114	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Spica 25 Federal #004H
 Devon Energy Production Company, LP
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
FS115	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS116	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS117	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS118	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS119	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS120	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS121	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS122	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS123	10/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS124	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS125	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS126	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS127	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS128	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS129	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS130	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS131	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS132	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS133	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS134	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS135	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS136	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS137	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS138	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS139	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS140	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS141	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS142	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS143	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS Spica 25 Federal #004H Devon Energy Production Company, LP Eddy County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
FS144	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS145	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS146	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS147	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS148	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS149	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS150	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS151	10/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0

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 3
SOIL SAMPLE ANALYTICAL RESULTS
 Spica 25 Federal #004H
 Devon Energy Production Company, LP
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Sidewall Soil Samples										
SW01	10/25/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SW02	10/25/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SW03	10/30/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SW04	10/25/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SW05	10/31/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	83.4
SW06	10/31/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	44.2
SW07	10/31/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	24.0
SW08	11/8/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SW09	11/8/2024	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SW10	11/8/2024	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SW11	11/8/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0

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

Referenced Well Records



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) CP-1939			
	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 LATITUDE 32	MINUTES 38	SECONDS 3.45	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE -103	49	57.98	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE SE NE Sec.26 T19S R31E 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 4/6/23	DRILLING ENDED 4/6/23	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		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 4/18/23	
	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) FROM TO		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)
	0	55	±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A				

FOR OSE INTERNAL USE

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

FILE NO. CP-01939	POD NO. 1	TRN NO. 740305
LOCATION 19S.31E.26.242	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
	0	4	4	Sand, fine-grained, poorly graded, unconsolidated, Tan	Y ✓ N		
	4	20	16	Sand, fine-grained, poorly graded, semi-consolidated, Tan off white	Y ✓ N		
	20	25	5	Clay, semi plastic, with fine-grained sand, gray/white	Y ✓ N		
	25	40	15	Clay, Stiff, semi-plastic, gray/white	Y ✓ N		
	40	55	15	Sand, fine/very fine-grained, poorly graded, unconsolidated, Tan	Y ✓ N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <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. 6 Regulus 26 Fed 2					
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;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Jackie D. Atkins DATE </div> </div>						

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	CP-01939	POD NO.	1
LOCATION		TRN NO.	740305
195.31E.76 747-		WELL TAG ID NO	PAGE 2 OF 2



APPENDIX B

Photographic Log



Photographic Log

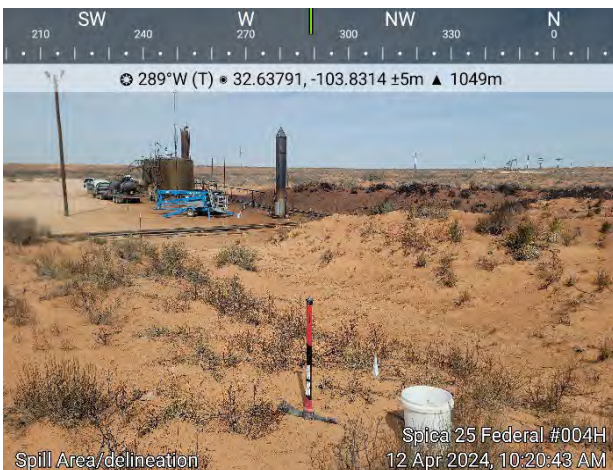
Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657



Photograph 1
Description: Lease Sign
View: North
Date: 10/21/2024



Photograph 2
Description: Release Area
View: East
Date: 4/12/2024



Photograph 3
Description: Release Area
View: West
Date: 4/12/2024



Photograph 4
Description: Release Area
View: Northeast
Date: 4/12/2024



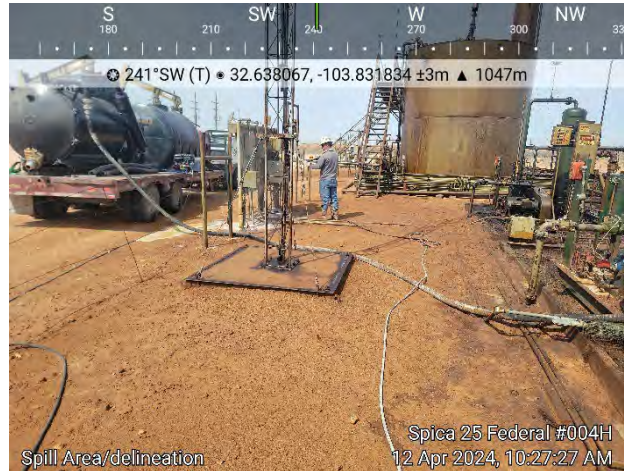
Photographic Log

Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657



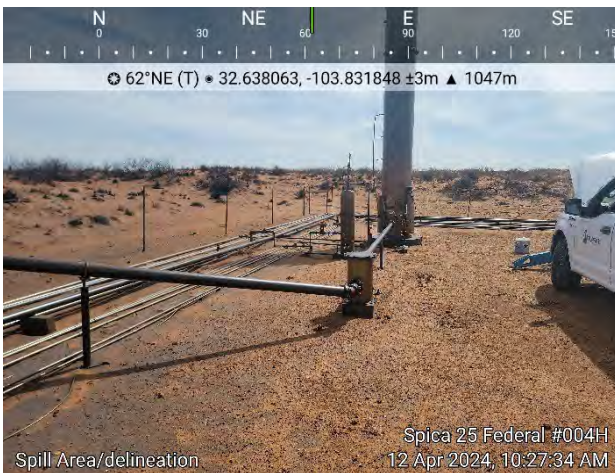
Photograph 5
Description: Release Area
View: West

Date: 4/12/2024



Photograph 6
Description: Release Area
View: Southwest

Date: 4/12/2024



Photograph 7
Description: Release Area
View: Northeast

Date: 4/12/2024



Photograph 8
Description: Delineation (BH06)
View: Southwest

Date: 5/24/2024



Photographic Log

Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657

West Elevation

82°E (T) • 32.637959, -103.832024 ±72m



24 May 2024, 12:46:20 PM

Photograph 9

Date: 5/24/2024

Description: Delineation (BH01)

View: East

North Elevation

176°S (T) • 32.63796, -103.832022 ±64m



24 May 2024, 1:44:18 PM

Photograph 10

Date: 5/24/2024

Description: Delineation (BH02)

View: South



24 May 2024, 4:09:51 PM

Photograph 11

Date: 5/24/2024

Description: Delineation (BH03)

View: South



24 May 2024, 2:10:57 PM

Photograph 12

Date: 5/24/2024

Description: Delineation (BH04)

View: West



Photographic Log

Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657

North East Elevation

245°SW (T) • 32.638328, -103.831024 ±263m



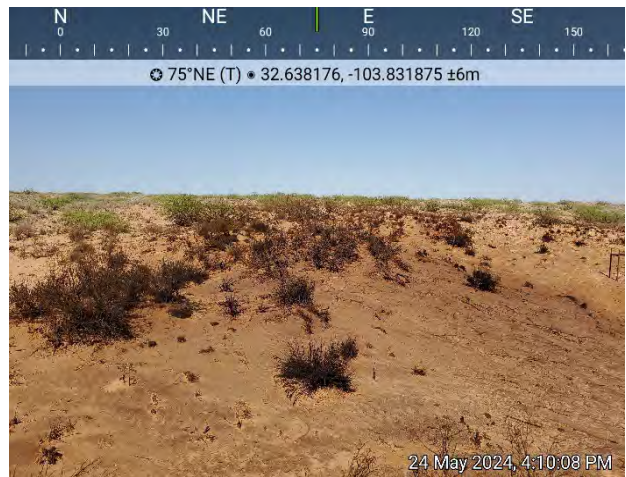
24 May 2024, 2:03:56 PM

Photograph 13

Date: 5/24/2024

Description: Delineation (BH05)

View: Southwest



24 May 2024, 4:10:08 PM

Photograph 14

Date: 5/24/2024

Description: Release Area

View: East



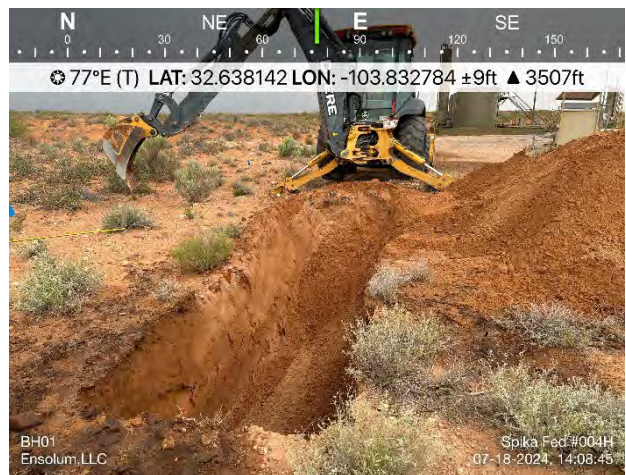
24 May 2024, 4:24:36 PM

Photograph 15

Date: 5/24/2024

Description: Release Area

View: Northeast



BH01
Ensolum, LLC

Spica Fed #004H
07-18-2024, 14:08:45

Photograph 16

Date: 7/18/2024

Description: Delineation (BH01)

View: East



Photographic Log

Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657



Photograph 17

Date: 10/21/2024

Description: Hydrovac Activities

View: Northeast



Photograph 18

Date: 10/21/2024

Description: Hydrovac Activities

View: Southwest



Photograph 19

Date: 10/21/2024

Description: Excavation

View: North



Photograph 20

Date: 10/21/2024

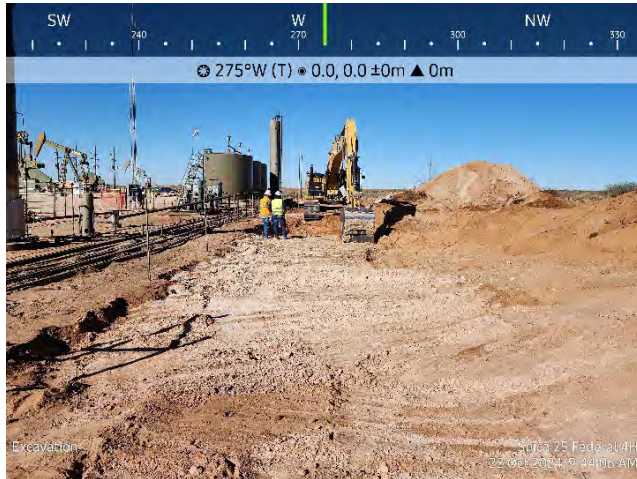
Description: Excavation

View: Northeast



Photographic Log

Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657



Photograph 21
Description: Excavation
View: West

Date: 10/22/2024



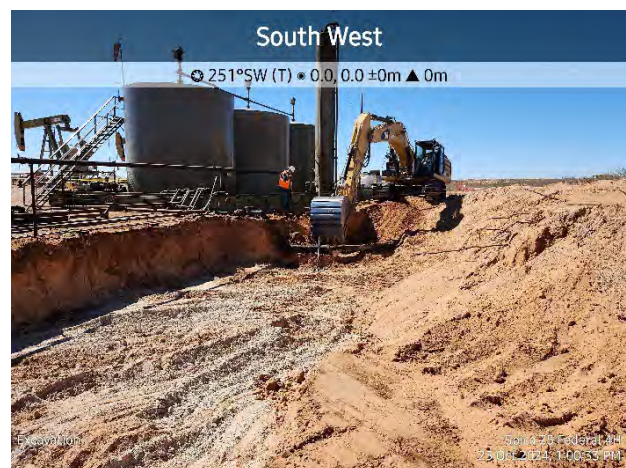
Photograph 22
Description: Excavation
View: West

Date: 10/22/2024



Photograph 23
Description: Excavation Area
View: North

Date: 10/23/2024



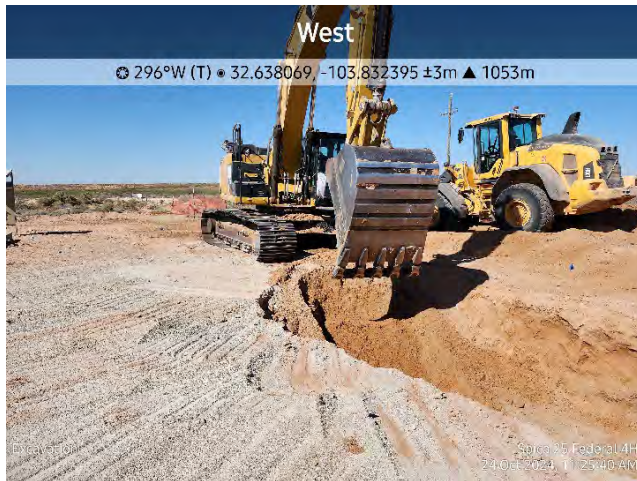
Photograph 24
Description: Excavation
View: Southwest

Date: 10/21/2024



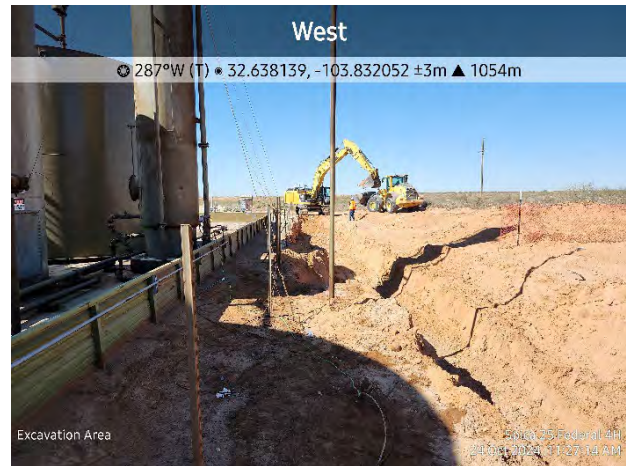
Photographic Log

Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657



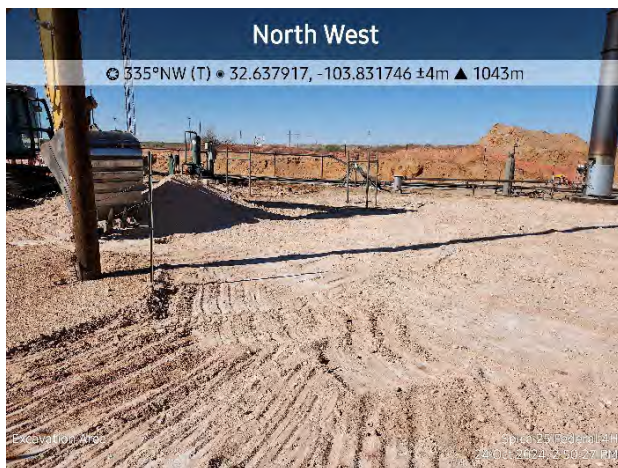
Photograph 25
Description: Excavation
View: West

Date: 10/24/2024



Photograph 26
Description: Excavation
View: West

Date: 10/24/2024



Photograph 27
Description: Excavation
View: Northwest

Date: 10/24/2024



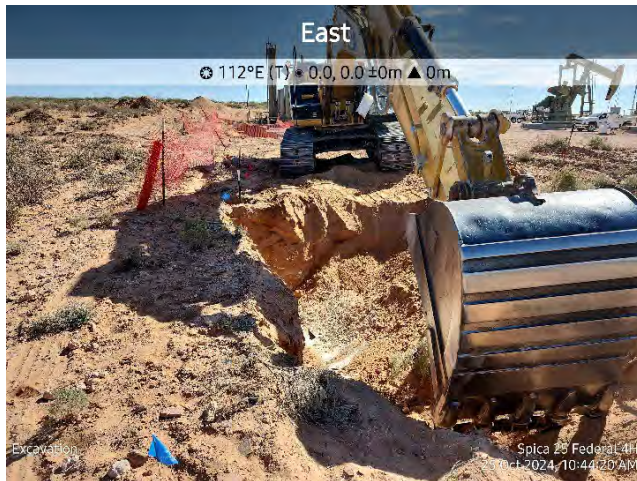
Photograph 28
Description: Excavation
View: North

Date: 10/25/2024



Photographic Log

Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657



Photograph 29
Description: Excavation
View: East

Date: 10/25/2024



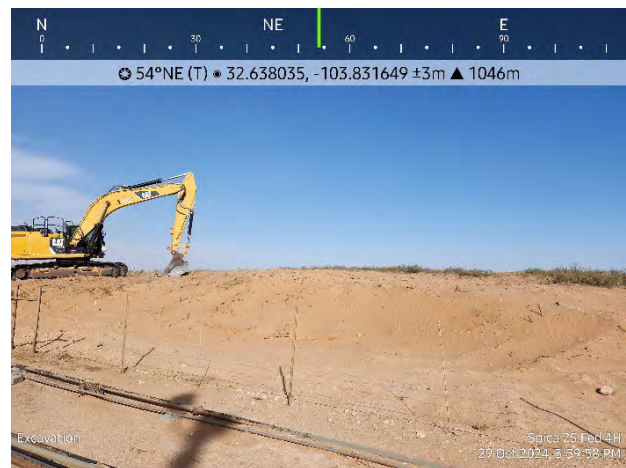
Photograph 30
Description: Excavation Area
View: Northeast

Date: 10/29/2024



Photograph 31
Description: Excavation Area
View: Northwest

Date: 10/29/2024



Photograph 32
Description: Excavation
View: Northeast

Date: 10/29/2024

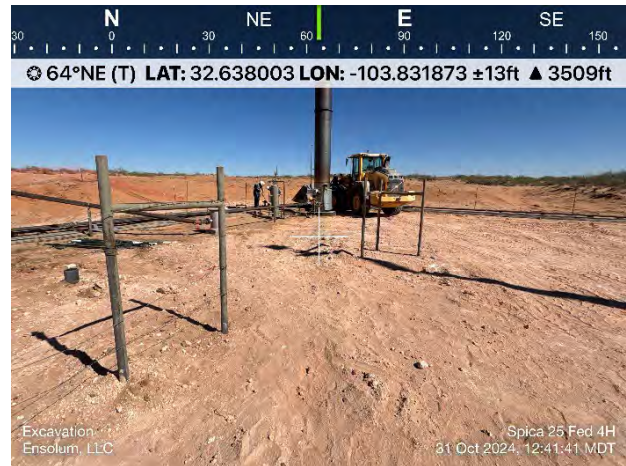


Photographic Log

Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657



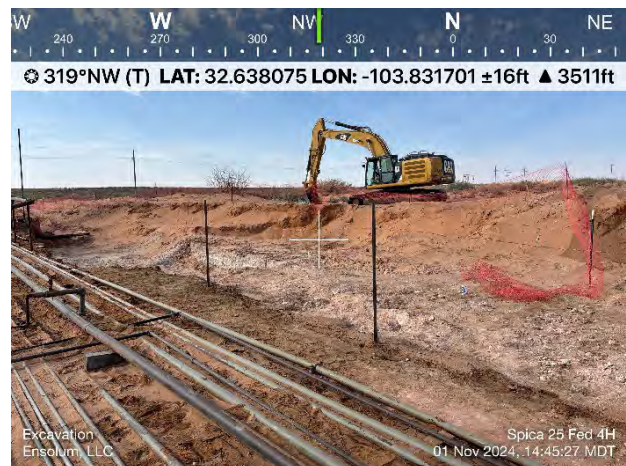
Photograph 33 Date: 10/30/2024
Description: Delineation (BH07)
View: East



Photograph 34 Date: 10/31/2024
Description: Excavation Area
View: Northeast



Photograph 35 Date: 11/1/2024
Description: Excavation Area
View: North



Photograph 36 Date: 11/1/2024
Description: Excavation
View: Northwest



Photographic Log

Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657

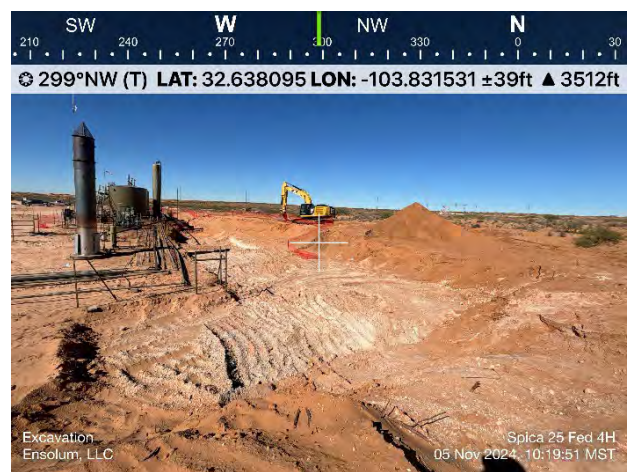


Photograph 37

Date: 11/5/2024

Description: Excavation Area

View: North



Photograph 38

Date: 11/5/2024

Description: Excavation Area

View: Northwest

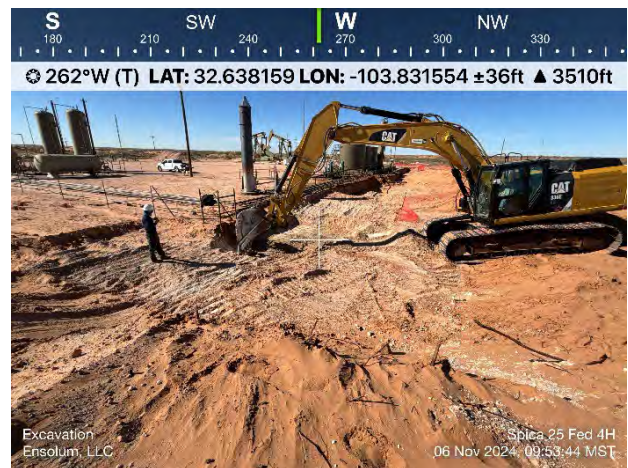


Photograph 39

Date: 11/6/2024

Description: Excavation

View: West



Photograph 40

Date: 11/6/2024

Description: Excavation

View: West



Photographic Log

Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657



Photograph 41
Description: Excavation
View: West

Date: 11/7/2024



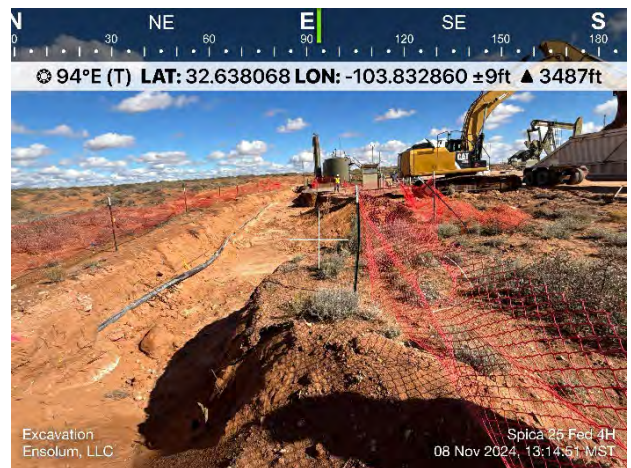
Photograph 42
Description: Excavation
View: Northwest

Date: 11/7/2024



Photograph 43
Description: Excavation
View: West

Date: 11/8/2024



Photograph 44
Description: Excavation
View: East

Date: 11/8/2024



Photographic Log

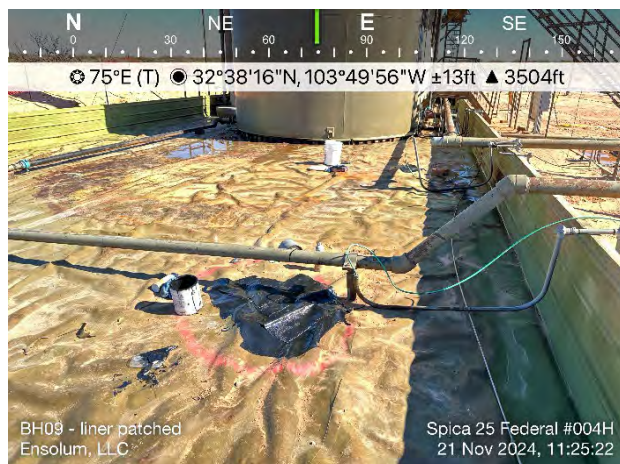
Devon Energy Production Company, LP
Spica 25 Federal #004H
nAPP2409940657



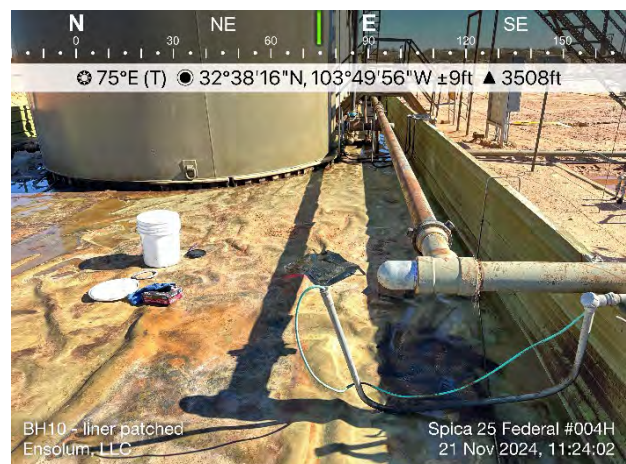
Photograph 45 Date: 11/21/2024
Description: Liner Delineation (BH09)
View: Northeast



Photograph 46 Date: 11/21/2024
Description: Liner Delineation (BH10)
View: Northeast



Photograph 47 Date: 11/21/2024
Description: Liner Patch (BH09)
View: East





Photograph 48 Date: 11/21/2024
Description: Liner Patch (BH10)
View: East





APPENDIX C


Lithologic Soil Sampling Logs


								Sample Name: BH01		Date: 07/18/2024	
								Site Name: Spica 25 Federal #004H			
								Incident Number: nAPP2409940657			
								Job Number: 03A1987129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Brandon Deal		Method: Backhoe	
Coordinates: 32.638115, -103.832748								Hole Diameter: 3'		Total Depth: 7'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. 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		757	Y	BH01	0	0	SC	Clayey Sand - Strong odor, Dark Brown, coarse to very fine grain size, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform			
			Y	BH01	1	1					
			Y	BH01	2	2					
			Y	BH01	3	3	SC	Clayey Sand - Strong odor, Black, coarse to very fine grain size, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform			
			Y	BH01	4	4					
			N	BH01	5	5	CCHE	Caliche, Light Brown, Odor, Non-cohesive, Non-plastic, Dry, Medium grained sand			
				BH01	6	6					
D	<20.0	29	N	BH01	7	7	CCHE	Caliche, Light Brown, Fine grain, Non-plastic, Non-cohesive, Dry			
						8					
Total Depth @ 7 ft BGS.											


								Sample Name: BH02		Date: 07/18/2024	
								Site Name: Spica 25 Federal #004H			
								Incident Number: nAPP2409940657			
								Job Number: 03A1987129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Backhoe	
32.638127, -103.832355								Hole Diameter: 3'		Total Depth: 9'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. 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			
M			Y	BH02	0	0	SC	Clayey Sand - Strong odor, Dark Brown, coarse to very fine grain size, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform			
M			Y	BH02	1	1					
D			Y	BH02	2	2					
D			Y	BH02	3	3	SC	Clayey Sand - Strong odor, Black to Grey, coarse to very fine grain size, Dry, Non-Plastic, Noncohesive, Massive, Non-Uniform			
D			Y	BH02	4	4					
D			Y	BH02	5	5					
D			Y	BH02	6	6	SC	Clayey Sand - Strong odor, Dark Brown, coarse to very fine grain size, Dry, Non-Plastic, Noncohesive, Massive, Non-Uniform			
D			Y	BH02	7	7					
D			Y	BH02	8	8					
D	<20.0	32	N	BH02	9	9	CCHE	Caliche, Light Brown, Fine Sand, Dry, Non-plastic, Non-cohesive, Massive,			
Total Depth @ 9 feet BGS.											


								Sample Name: BH03		Date: 07/18/2024	
								Site Name: Spica 25 Federal #004H			
								Incident Number: nAPP2409940657			
								Job Number: 03A1987129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Brandon Deal		Method: Backhoe	
Coordinates: 32.638125, 103.831926								Hole Diameter: 4'		Total Depth: 12'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. 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			
M			Y	BH03	0	0	SC	Clayey Sand - Strong odor, Dark Brown, coarse to very fine grain size, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform			
M			Y	BH03	1	1					
M			Y	BH03	2	2					
D			N	BH03	3	3	SC	Clayey Sand - Strong odor, Dark Brown, coarse to very fine grain size, Dry, Non-Plastic, Noncohesive, Massive, Non-Uniform			
D			N	BH03	4	4					
D			N	BH03	5	5					
D			N	BH03	6	6					
D		199	N	BH03	7	7					
D			N	BH03	8	8					
D	767		N	BH03	9	9	CCHE	Caliche, Light Brown, Non-cohesive, Fine grain, Dry, Non-cohesive, Non-uniform,			
D	918		N	BH03	10	10					
D	565		N	BH03	11	11					
D	453	53	N	BH03	12	12	SW	Red Sand, Fine grain, Dry, Non-plastic, Non-cohesive, Thinly bedded			


					Sample Name: BH04		Date: 5/24/2024	
					Site Name: Spica 25 Federal #004H			
					Incident Number: nAPP2409940657			
					Job Number: 03A1987129			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Kaoru Shimada		Method: Hand Auger	
Coordinates: 32.638194, -103.831529					Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. 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			N	BH04	0	0		Silty Sand - Brown to Light Brown, fine to coarse grain size, Dry, Non-plastic, Noncohesive, Massive, Non-uniform
D			N	BH04	1	1	SW	
D	ND	14	N	BH04	2	2		
Total Depth @ 2 feet BGS.								


					Sample Name: BH05		Date: 5/24/2024	
LITHOLOGIC / SOIL SAMPLING LOG					Site Name: Spica 25 Federal #004H			
					Incident Number: nAPP2409940657			
					Job Number: 03A1987129			
Coordinates: 32.638305 -103.831061					Logged By: Kaoru Shimada		Method: Hand Auger	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.					Hole Diameter: 3"		Total Depth: 2'	
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N	BH05	0	0	SW	Silty Sand - Brown to Light Brown, fine to coarse grain size, Dry, Non-plastic, Noncohesive, Massive, Non-uniform
D	ND	41	N	BH05	1	1		
Total Depth @ 1-foot BGS.								

 ENSOLUM		Sample Name: BH06		Date: 5/24/2024				
		Site Name: Spica 25 Federal #004H						
		Incident Number: nAPP2409940657						
		Job Number: 03A1987129						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.637975 -103.831958			Logged By: Kaoru Shimada		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. 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			N	BH06		0		Caliche Pad - Brown to Light Brown, coarse to fine grain size with small to large gravel, Dry, Non-Plastic, Noncohesive, Non-Uniform
D	ND	8	N	BH06		1	CCHE	
Total Depth @ 1-foot BGS.								

								Sample Name: BH07		Date: 10/30/2024	
								Site Name: Spica 25 Fed 4H			
								Incident Number: nAPP2409940657			
								Job Number: 03A1987129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Hand Auger	
Coordinates: 32.638108, -103.832150								Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. 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	ND		Y	BH07	0	0	CCHE	Pad Material - Mix of Caliche gravel and silica pea grave, mostly medium to large gravel with some fine to coarse sand, stained, Dry, Non-Plastic, Non-Uniform, Sharp			
M	ND		N	BH07	1	1	SM	Silty Sand - Red to medium brown, Mostly coarse to fine grained, moist, Non-Plastic Noncohesive, Massive, Non-Uniform, Gradational			
M	ND		N	BH07	2	2					
M	235	36	N	BH07	3	3	SM	Silty Sand - Grey to red, Mostly coarse to fine grained with trace small to large gravel, moist, Non-Plastic Noncohesive, Massive, Non-Uniform, Gradational			
M	358	43	N	BH07	4	4	CCHE	Caliche Sand with Gravel - Grey to white, Mostly coarse to fine grained with some small to large gravel, moist, Non-Plastic Noncohesive, Massive, Non-Uniform			
Total Depth @ 4 ft bgs.											

								Sample Name: BH08		Date: 11/8/2024	
								Site Name: Spica 25 Fed 4H			
								Incident Number: nAPP2409940657			
								Job Number: 03A1987129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Hand Auger	
Coordinates: 32.638076, -103.831859								Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. 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			Y	BH08	0	0	CCHE	Pad Material - Mix of Caliche gravel and silica pea grave, mostly medium to large gravel with some fine to coarse sand, stained, Dry, Non-Plastic, Non-Uniform, Sharp			
M			N	BH08	1	1	SM	Silty Sand - Red to medium brown, Mostly coarse to fine grained, moist, Non-Plastic Noncohesive, Massive, Non-Uniform, Gradational			
M			N	BH08	2	2					
D			N	BH08	3	3	CCHE	Caliche Sand with Gravel - Grey to white, Mostly coarse to fine grained with some small to large gravel, moist, Non-Plastic Noncohesive, Massive, Non-Uniform			
Total Depth @ 3 feet bgs.											

 ENSOLUM		Sample Name: BH09		Date: 11/21/24				
		Site Name: Spica 25 Federal #004H						
		Incident Number: nAPP2409940657						
		Job Number: 03A1987129						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.63804, -103.83227			Logged By: Oluwale Aderinto		Method: Hand auger			
			Hole Diameter: 3"		Total Depth: 3'			
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and Petroflag for TPH. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH09	0	0	CCHE	Pad Caliche
M	308		N	BH09	1	1	SP-SM	Poorly graded sand with silt, fine sand, non-cohesive.
M	<264	115	N	BH09	2	2		
M	<264	15	N	BH09	3	3		
Total Depth @ 3 feet bgs.								

 ENSOLUM		Sample Name: BH10		Date: 11/21/24				
		Site Name: Spica 25 Federal #004H						
		Incident Number: nAPP2409940657						
		Job Number: 03A1987129						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.63803, -103.83222			Logged By: Oluwale Aderinto		Method: Hand auger			
			Hole Diameter: 3"		Total Depth: 3'			
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and Petroflag for TPH. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH09	0	0	CCHE	Pad Caliche
M	<264		N	BH09	1	1	SP-SM	Poorly graded sand with silt, fine sand, non-cohesive.
M	<264	128	N	BH09	2	2		
M	<264	15	N	BH09	3	3		
Total Depth @ 3 feet bgs.								



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: Spica 25 federal #004H

Work Order: E404132

Job Number: 01058-0007

Received: 4/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/22/24

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: 4/22/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Spica 25 federal #004H
Workorder: E404132
Date Received: 4/16/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/16/2024 8:30:00AM, under the Project Name: Spica 25 federal #004H.

The analytical test results summarized in this report with the Project Name: Spica 25 federal #004H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/22/24 15:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E404132-01A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
SS02-0'	E404132-02A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
SS03-0'	E404132-03A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
SS04-0'	E404132-04A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
SS05-0'	E404132-05A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
SS06-0'	E404132-06A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
SS07-0'	E404132-07A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
SS08-0'	E404132-08A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/22/2024 3:37:32PM
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SS01-0'
E404132-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2416052	
Benzene	ND	0.0250	1	04/16/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/17/24	
Toluene	ND	0.0250	1	04/16/24	04/17/24	
o-Xylene	ND	0.0250	1	04/16/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene		92.4 %	70-130	04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	04/16/24	04/17/24	
Surrogate: Toluene-d8		97.5 %	70-130	04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2416052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene		92.4 %	70-130	04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	04/16/24	04/17/24	
Surrogate: Toluene-d8		97.5 %	70-130	04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2416095	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		74.3 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2416082	
Chloride	ND	20.0	1	04/17/24	04/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/22/2024 3:37:32PM
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SS02-0'

E404132-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Benzene	ND	0.0250	1	04/16/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/17/24	
Toluene	ND	0.0250	1	04/16/24	04/17/24	
o-Xylene	ND	0.0250	1	04/16/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	92.8 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	97.9 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	92.8 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	97.9 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416095
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane	78.4 %	50-200		04/18/24	04/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416082
Chloride	ND	20.0	1	04/17/24	04/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/22/2024 3:37:32PM
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SS03-0'

E404132-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Benzene	ND	0.0250	1	04/16/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/16/24	
Toluene	ND	0.0250	1	04/16/24	04/16/24	
o-Xylene	ND	0.0250	1	04/16/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/16/24	
Surrogate: Bromofluorobenzene	83.2 %	70-130		04/16/24	04/16/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		04/16/24	04/16/24	
Surrogate: Toluene-d8	102 %	70-130		04/16/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/16/24	
Surrogate: Bromofluorobenzene	83.2 %	70-130		04/16/24	04/16/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		04/16/24	04/16/24	
Surrogate: Toluene-d8	102 %	70-130		04/16/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416095
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane	78.8 %	50-200		04/18/24	04/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416082
Chloride	ND	20.0	1	04/17/24	04/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/22/2024 3:37:32PM
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SS04-0'

E404132-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Benzene	ND	0.0250	1	04/16/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/17/24	
Toluene	ND	0.0250	1	04/16/24	04/17/24	
o-Xylene	ND	0.0250	1	04/16/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	98.5 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	98.5 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416095
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane	80.6 %	50-200		04/18/24	04/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416082
Chloride	ND	20.0	1	04/17/24	04/19/24	



Sample Data

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

Project Name: Spica 25 federal #004H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/22/2024 3:37:32PM

SS05-0'

E404132-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Benzene	ND	0.0250	1	04/16/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/17/24	
Toluene	ND	0.0250	1	04/16/24	04/17/24	
o-Xylene	ND	0.0250	1	04/16/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	92.0 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	98.1 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	92.0 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	98.1 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416095
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane	79.9 %	50-200		04/18/24	04/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416082
Chloride	ND	20.0	1	04/17/24	04/19/24	



Sample Data

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

Project Name: Spica 25 federal #004H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/22/2024 3:37:32PM

SS06-0'

E404132-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Benzene	ND	0.0250	1	04/16/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/17/24	
Toluene	ND	0.0250	1	04/16/24	04/17/24	
o-Xylene	ND	0.0250	1	04/16/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	98.6 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	98.6 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416095
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane	82.3 %	50-200		04/18/24	04/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416082
Chloride	615	20.0	1	04/17/24	04/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/22/2024 3:37:32PM
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SS07-0'

E404132-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Benzene	ND	0.0250	1	04/16/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/17/24	
Toluene	ND	0.0250	1	04/16/24	04/17/24	
o-Xylene	ND	0.0250	1	04/16/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	92.2 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	100 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	92.2 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	100 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416095
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane	83.2 %	50-200		04/18/24	04/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416082
Chloride	26.4	20.0	1	04/17/24	04/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/22/2024 3:37:32PM
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SS08-0'

E404132-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Benzene	ND	0.0250	1	04/16/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/17/24	
Toluene	ND	0.0250	1	04/16/24	04/17/24	
o-Xylene	ND	0.0250	1	04/16/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	98.8 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416052
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/17/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		04/16/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/16/24	04/17/24	
Surrogate: Toluene-d8	98.8 %	70-130		04/16/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416095
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane	80.9 %	50-200		04/18/24	04/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416082
Chloride	84.9	20.0	1	04/17/24	04/19/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/22/2024 3:37:32PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2416052-BLK1) Prepared: 04/16/24 Analyzed: 04/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.460		0.500		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.7	70-130			

LCS (2416052-BS1) Prepared: 04/16/24 Analyzed: 04/16/24

Benzene	2.36	0.0250	2.50		94.4	70-130			
Ethylbenzene	2.32	0.0250	2.50		93.0	70-130			
Toluene	2.14	0.0250	2.50		85.5	70-130			
o-Xylene	2.36	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.3	70-130			
Total Xylenes	7.13	0.0250	7.50		95.1	70-130			
Surrogate: Bromofluorobenzene	0.485		0.500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.421		0.500		84.2	70-130			

Matrix Spike (2416052-MS1) Source: E404132-03 Prepared: 04/16/24 Analyzed: 04/16/24

Benzene	2.33	0.0250	2.50	ND	93.2	48-131			
Ethylbenzene	2.31	0.0250	2.50	ND	92.5	45-135			
Toluene	2.56	0.0250	2.50	ND	102	48-130			
o-Xylene	2.23	0.0250	2.50	ND	89.3	43-135			
p,m-Xylene	4.46	0.0500	5.00	ND	89.2	43-135			
Total Xylenes	6.69	0.0250	7.50	ND	89.2	43-135			
Surrogate: Bromofluorobenzene	0.456		0.500		91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

Matrix Spike Dup (2416052-MSD1) Source: E404132-03 Prepared: 04/16/24 Analyzed: 04/16/24

Benzene	2.32	0.0250	2.50	ND	92.8	48-131	0.473	23	
Ethylbenzene	2.33	0.0250	2.50	ND	93.4	45-135	0.990	27	
Toluene	2.67	0.0250	2.50	ND	107	48-130	4.48	24	
o-Xylene	2.38	0.0250	2.50	ND	95.1	43-135	6.22	27	
p,m-Xylene	4.52	0.0500	5.00	ND	90.3	43-135	1.25	27	
Total Xylenes	6.89	0.0250	7.50	ND	91.9	43-135	2.94	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/22/2024 3:37:32PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416052-BLK1) Prepared: 04/16/24 Analyzed: 04/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.460		0.500		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.7	70-130			

LCS (2416052-BS2) Prepared: 04/16/24 Analyzed: 04/16/24

Gasoline Range Organics (C6-C10)	57.9	20.0	50.0		116	70-130			
Surrogate: Bromofluorobenzene	0.428		0.500		85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

Matrix Spike (2416052-MS2) Source: E404132-03 Prepared: 04/16/24 Analyzed: 04/16/24

Gasoline Range Organics (C6-C10)	59.1	20.0	50.0	ND	118	70-130			
Surrogate: Bromofluorobenzene	0.469		0.500		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.8	70-130			

Matrix Spike Dup (2416052-MSD2) Source: E404132-03 Prepared: 04/16/24 Analyzed: 04/16/24

Gasoline Range Organics (C6-C10)	65.9	20.0	50.0	ND	132	70-130	10.9	20	M1
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/22/2024 3:37:32PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416095-BLK1)					Prepared: 04/18/24 Analyzed: 04/19/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.0		50.0		83.9	50-200			

LCS (2416095-BS1)					Prepared: 04/18/24 Analyzed: 04/19/24				
Diesel Range Organics (C10-C28)	242	25.0	250		96.9	38-132			
Surrogate: n-Nonane	43.5		50.0		87.1	50-200			

Matrix Spike (2416095-MS1)					Source: E404132-03		Prepared: 04/18/24 Analyzed: 04/19/24		
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132			
Surrogate: n-Nonane	41.0		50.0		82.0	50-200			

Matrix Spike Dup (2416095-MSD1)					Source: E404132-03		Prepared: 04/18/24 Analyzed: 04/19/24		
Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.8	38-132	2.60	20	
Surrogate: n-Nonane	42.3		50.0		84.5	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/22/2024 3:37:32PM

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 (2416082-BLK1)					Prepared: 04/17/24 Analyzed: 04/19/24				
Chloride	ND	20.0							
LCS (2416082-BS1)					Prepared: 04/17/24 Analyzed: 04/19/24				
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2416082-MS1)					Source: E404119-03		Prepared: 04/17/24 Analyzed: 04/19/24		
Chloride	647	20.0	250	368	112	80-120			
Matrix Spike Dup (2416082-MSD1)					Source: E404119-03		Prepared: 04/17/24 Analyzed: 04/19/24		
Chloride	645	20.0	250	368	111	80-120	0.227	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:	Spica 25 federal #004H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/22/24 15:37

- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

Client: Devon		Bill To		Lab Use Only		TAT		EPA Program					
Project: Spica 25 Federal #004H		Attention: Dale Woodall		Lab WO# E 404132		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 205 E Bender Road #150		City, State, Zip: Hobbs NM, 88240		Analysis and Method		x					
Address: 3122 National Parks Hwy		City, State, Zip: Hobbs NM, 88240		Phone: (575)748-1838									RCRA
City, State, Zip: Carlsbad NM, 88220		Email: dale.woodall@dvn.com											
Phone: 575-988-0055													
Email: agiovengo@ensolum.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	GDOC	TX	Remarks
10:01	4/12/2024	Soil	1	SS01 - 0'	1						X				
11:35	4/12/2024	Soil	1	SS02 - 0'	2						X				
10:15	4/12/2024	Soil	1	SS03 - 0'	3						X				
10:18	4/12/2024	Soil	1	SS04 - 0'	4						X				
10:22	4/12/2024	Soil	1	SS05 - 0'	5						X				
10:56	4/12/2024	Soil	1	SS06 - 0'	6						X				
11:21	4/12/2024	Soil	1	SS07 - 0'	7						X				
11:37	4/12/2024	Soil	1	SS08 - 0'	8						X				

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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>		4-15-24	7:30	<i>Michelle Gonzales</i>		4-15-24	0730	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3			
<i>Michelle Gonzales</i>		4-15-24	1620	<i>J.M.</i>		4-15-24	1800				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C			
<i>J.M.</i>		4-15-24	2400	<i>[Signature]</i>		4-16-24	830	4			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											

Envirotech Analytical Laboratory

Printed: 4/16/2024 1:54:36PM

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:	04/16/24 08:30	Work Order ID:	E404132
Phone:	(505) 382-1211	Date Logged In:	04/16/24 09:12	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	04/22/24 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

Matador Resources, LLC.

Project Name: Spica 25 Federal #004 H

Work Order: E405377

Job Number: 23003-0002

Received: 5/29/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/10/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/10/24

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Spica 25 Federal #004 H
Workorder: E405377
Date Received: 5/29/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/29/2024 8:00:00AM, under the Project Name: Spica 25 Federal #004 H.

The analytical test results summarized in this report with the Project Name: Spica 25 Federal #004 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Spica 25 Federal #004 H

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

06/10/24 10:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS06A - 0'	E405377-01A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH01 - 0'	E405377-02A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH01 - 4'	E405377-03A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH02 - 0'	E405377-04A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH02 - 4'	E405377-05A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH02 - 8'	E405377-06A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH03 - 0'	E405377-07A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH03 - 4'	E405377-08A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH03 - 8'	E405377-09A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH04 - 0'	E405377-10A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH04 - 2'	E405377-11A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH05 - 0'	E405377-12A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH05 - 1'	E405377-13A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH06 - 0'	E405377-14A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.
BH06 - 1'	E405377-15A	Soil	05/24/24	05/29/24	Glass Jar, 4 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Spica 25 Federal #004 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/10/2024 10:23:24AM
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SS06A - 0'

E405377-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	0.0795	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	1.22	0.0250	1	05/31/24	06/06/24	
Toluene	2.31	0.0250	1	05/31/24	06/06/24	
o-Xylene	0.489	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	1.61	0.0500	1	05/31/24	06/06/24	
Total Xylenes	2.10	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		102 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		101 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	21.0	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		102 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		101 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	34.6	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		111 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	73.9	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Spica 25 Federal #004 H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/10/2024 10:23:24AM

BH01 - 0'

E405377-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	1.43	0.250	10	05/31/24	06/06/24	
Ethylbenzene	77.2	0.250	10	05/31/24	06/06/24	
Toluene	79.1	0.250	10	05/31/24	06/06/24	
o-Xylene	45.7	0.250	10	05/31/24	06/06/24	
p,m-Xylene	99.4	0.500	10	05/31/24	06/06/24	
Total Xylenes	145	0.250	10	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		05/31/24	06/06/24	
Surrogate: Toluene-d8	106 %	70-130		05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	2140	200	10	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		05/31/24	06/06/24	
Surrogate: Toluene-d8	106 %	70-130		05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	14900	500	20	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	6670	1000	20	06/04/24	06/06/24	
Surrogate: n-Nonane	337 %	50-200		06/04/24	06/06/24	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	ND	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Spica 25 Federal #004 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/10/2024 10:23:24AM
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BH01 - 4'

E405377-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	0.251	0.0250	1	05/31/24	06/06/24	
Toluene	0.186	0.0250	1	05/31/24	06/06/24	
o-Xylene	0.191	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	0.369	0.0500	1	05/31/24	06/06/24	
Total Xylenes	0.559	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		101 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		101 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	797	50.0	2	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	493	100	2	06/04/24	06/06/24	
Surrogate: n-Nonane		90.2 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	ND	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Spica 25 Federal #004 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/10/2024 10:23:24AM
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BH02 - 0'

E405377-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2422105	
Benzene	8.36	0.500	20	05/31/24	06/06/24	
Ethylbenzene	134	0.500	20	05/31/24	06/06/24	
Toluene	187	0.500	20	05/31/24	06/06/24	
o-Xylene	74.7	0.500	20	05/31/24	06/06/24	
p,m-Xylene	170	1.00	20	05/31/24	06/06/24	
Total Xylenes	245	0.500	20	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene	108 %	70-130		05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		05/31/24	06/06/24	
Surrogate: Toluene-d8	105 %	70-130		05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2422105	
Gasoline Range Organics (C6-C10)	3220	400	20	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene	108 %	70-130		05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		05/31/24	06/06/24	
Surrogate: Toluene-d8	105 %	70-130		05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2423048	
Diesel Range Organics (C10-C28)	26000	500	20	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	11500	1000	20	06/04/24	06/06/24	
Surrogate: n-Nonane	515 %	50-200		06/04/24	06/06/24	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2423026	
Chloride	21.6	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Spica 25 Federal #004 H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/10/2024 10:23:24AM

BH02 - 4'

E405377-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		97.2 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		97.2 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		99.7 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	136	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Spica 25 Federal #004 H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/10/2024 10:23:24AM

BH02 - 8'

E405377-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		106 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		100 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		106 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		100 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	266	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	187	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		103 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	ND	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Spica 25 Federal #004 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/10/2024 10:23:24AM
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BH03 - 0'

E405377-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2422105	
Benzene	1.63	0.500	20	05/31/24	06/06/24	
Ethylbenzene	62.6	0.500	20	05/31/24	06/06/24	
Toluene	59.2	0.500	20	05/31/24	06/06/24	
o-Xylene	39.8	0.500	20	05/31/24	06/06/24	
p,m-Xylene	83.4	1.00	20	05/31/24	06/06/24	
Total Xylenes	123	0.500	20	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene	107 %	70-130		05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		05/31/24	06/06/24	
Surrogate: Toluene-d8	102 %	70-130		05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2422105	
Gasoline Range Organics (C6-C10)	1650	400	20	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene	107 %	70-130		05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		05/31/24	06/06/24	
Surrogate: Toluene-d8	102 %	70-130		05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2423048	
Diesel Range Organics (C10-C28)	6300	500	20	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	3350	1000	20	06/04/24	06/06/24	
Surrogate: n-Nonane	75.1 %	50-200		06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2423026	
Chloride	59.6	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Spica 25 Federal #004 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/10/2024 10:23:24AM
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BH03 - 4'

E405377-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		102 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		100 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		102 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		100 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	63.1	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	75.0	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		113 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	3020	40.0	2	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Spica 25 Federal #004 H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/10/2024 10:23:24AM

BH03 - 8'

E405377-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		97.4 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		97.4 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	82.8	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	73.7	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		109 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	236	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Spica 25 Federal #004 H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/10/2024 10:23:24AM

BH04 - 0'

E405377-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		99.2 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		99.2 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		106 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	ND	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Spica 25 Federal #004 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/10/2024 10:23:24AM
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BH04 - 2'

E405377-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		99.6 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		99.6 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		113 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	ND	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Spica 25 Federal #004 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/10/2024 10:23:24AM
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BH05 - 0'

E405377-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		100 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		100 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	60.7	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	73.6	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		109 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	ND	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Spica 25 Federal #004 H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/10/2024 10:23:24AM

BH05 - 1'

E405377-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		101 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		101 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		108 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	ND	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Spica 25 Federal #004 H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/10/2024 10:23:24AM

BH06 - 0'

E405377-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		103 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		99.1 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		103 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		99.1 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		114 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	63.2	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Spica 25 Federal #004 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/10/2024 10:23:24AM
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BH06 - 1'

E405377-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Benzene	ND	0.0250	1	05/31/24	06/06/24	
Ethylbenzene	ND	0.0250	1	05/31/24	06/06/24	
Toluene	ND	0.0250	1	05/31/24	06/06/24	
o-Xylene	ND	0.0250	1	05/31/24	06/06/24	
p,m-Xylene	ND	0.0500	1	05/31/24	06/06/24	
Total Xylenes	ND	0.0250	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		101 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422105
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/31/24	06/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130	05/31/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	05/31/24	06/06/24	
Surrogate: Toluene-d8		101 %	70-130	05/31/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		109 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423026
Chloride	58.9	20.0	1	06/03/24	06/04/24	



Matador Resources, LLC.	Project Name:	Spica 25 Federal #004 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/10/2024 10:23:24AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2422105-BLK1)

Prepared: 05/31/24 Analyzed: 06/05/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS (2422105-BS1)

Prepared: 05/31/24 Analyzed: 06/05/24

Benzene	2.50	0.0250	2.50		99.8	70-130			
Ethylbenzene	2.56	0.0250	2.50		102	70-130			
Toluene	2.44	0.0250	2.50		97.6	70-130			
o-Xylene	2.59	0.0250	2.50		104	70-130			
p,m-Xylene	5.17	0.0500	5.00		103	70-130			
Total Xylenes	7.76	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

LCS Dup (2422105-BSD1)

Prepared: 05/31/24 Analyzed: 06/06/24

Benzene	2.53	0.0250	2.50		101	70-130	1.53	23	
Ethylbenzene	2.59	0.0250	2.50		104	70-130	1.22	27	
Toluene	2.48	0.0250	2.50		99.2	70-130	1.67	24	
o-Xylene	2.71	0.0250	2.50		108	70-130	4.52	27	
p,m-Xylene	5.39	0.0500	5.00		108	70-130	4.27	27	
Total Xylenes	8.11	0.0250	7.50		108	70-130	4.36	27	
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Spica 25 Federal #004 H	Reported: 6/10/2024 10:23:24AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422105-BLK1)

Prepared: 05/31/24 Analyzed: 06/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS (2422105-BS2)

Prepared: 05/31/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

LCS Dup (2422105-BSD2)

Prepared: 05/31/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130	3.92	20	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Spica 25 Federal #004 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/10/2024 10:23:24AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423048-BLK1) Prepared: 06/04/24 Analyzed: 06/06/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.7		50.0		109	50-200			

LCS (2423048-BS1) Prepared: 06/04/24 Analyzed: 06/06/24

Diesel Range Organics (C10-C28)	308	25.0	250		123	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			

LCS Dup (2423048-BSD1) Prepared: 06/04/24 Analyzed: 06/06/24

Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132	0.194	20	
Surrogate: n-Nonane	55.9		50.0		112	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Spica 25 Federal #004 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/10/2024 10:23:24AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423026-BLK1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	ND	20.0							
LCS (2423026-BS1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2423026-BSD1)					Prepared: 06/03/24 Analyzed: 06/04/24				
Chloride	251	20.0	250		101	90-110	0.336	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

Matador Resources, LLC.	Project Name:	Spica 25 Federal #004 H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/10/24 10:23

- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State									
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX						
Project: Spica 25 Federal #004 H				Address: 3122 National Parks Hwy				E 405377		23003-0002					x	x									
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																					
Address: 3122 National Parks Hwy				Phone: 575-988-0055																					
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																					
Phone: 575-988-0055				Miscellaneous:																					
Email: agiovengo@ensolum.com																									
												Analysis and Method				EPA Program									
																SDWA				CWA		RCRA			
																Compliance				Y		or		N	
																PWSID #									
																				Remarks					
Sample Information																									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals										
11/4	5/24/2024	Soil	1	SS06A-0'			1						X												
1213	5/24/2024	Soil	1	BH01-0'			2						X												
1222	5/24/2024	Soil	1	BH01-4'			3						X												
1259	5/24/2024	Soil	1	BH02-0'			4						X												
1311	5/24/2024	Soil	1	BH02-4'			5						X												
1340	5/24/2024	Soil	1	BH02-8'			6						X												
1445	5/24/2024	Soil	1	BH03-0'			7						X												
1456	5/24/2024	Soil	1	BH03-4'			8						X												
1610	5/24/2024	Soil	1	BH03-8'			9						X												
1407	5/24/2024	Soil	1	BH04-0'			10						X												
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																									
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																									
Sampled by: _____ Kaoru Shimada																									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																									

Page 2 of 2



Envirotech Analytical Laboratory

Printed: 5/29/2024 1:11:02PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/29/24 08:00	Work Order ID:	E405377
Phone:	(972) 371-5200	Date Logged In:	05/29/24 12:00	Logged In By:	Angelina Pineda
Email:	agiovngo@ensolum.com	Due Date:	06/07/24 17:00 (7 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: Spica 25 federal #004H

Work Order: E407162

Job Number: 01058-0007

Received: 7/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/23/24

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: 7/23/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Spica 25 federal #004H
Workorder: E407162
Date Received: 7/22/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/22/2024 8:30:00AM, under the Project Name: Spica 25 federal #004H.

The analytical test results summarized in this report with the Project Name: Spica 25 federal #004H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/23/24 13:34

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-5'	E407162-01A	Soil	07/18/24	07/22/24	Glass Jar, 2 oz.
BH01-7'	E407162-02A	Soil	07/18/24	07/22/24	Glass Jar, 2 oz.
BH02-9'	E407162-03A	Soil	07/18/24	07/22/24	Glass Jar, 2 oz.
BH03-10'	E407162-04A	Soil	07/18/24	07/22/24	Glass Jar, 2 oz.
BH03-12'	E407162-05A	Soil	07/18/24	07/22/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/23/2024 1:34:12PM
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BH01-5'
E407162-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2430007	
Benzene	ND	0.0250	1	07/22/24	07/22/24	
Ethylbenzene	0.147	0.0250	1	07/22/24	07/22/24	
Toluene	ND	0.0250	1	07/22/24	07/22/24	
o-Xylene	0.239	0.0250	1	07/22/24	07/22/24	
p,m-Xylene	0.328	0.0500	1	07/22/24	07/22/24	
Total Xylenes	0.567	0.0250	1	07/22/24	07/22/24	
Surrogate: 4-Bromochlorobenzene-PID	104 %	70-130		07/22/24	07/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2430007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/24	07/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		07/22/24	07/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2430001	
Diesel Range Organics (C10-C28)	567	25.0	1	07/22/24	07/22/24	
Oil Range Organics (C28-C36)	161	50.0	1	07/22/24	07/22/24	
Surrogate: n-Nonane	109 %	50-200		07/22/24	07/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2430006	
Chloride	26.5	20.0	1	07/22/24	07/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/23/2024 1:34:12PM
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BH01-7'

E407162-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2430007	
Benzene	ND	0.0250	1	07/22/24	07/22/24	
Ethylbenzene	ND	0.0250	1	07/22/24	07/22/24	
Toluene	ND	0.0250	1	07/22/24	07/22/24	
o-Xylene	ND	0.0250	1	07/22/24	07/22/24	
p,m-Xylene	ND	0.0500	1	07/22/24	07/22/24	
Total Xylenes	ND	0.0250	1	07/22/24	07/22/24	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		07/22/24	07/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2430007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/24	07/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/22/24	07/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2430001	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/22/24	07/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/22/24	07/22/24	
Surrogate: n-Nonane	106 %	50-200		07/22/24	07/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2430006	
Chloride	ND	20.0	1	07/22/24	07/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/23/2024 1:34:12PM
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BH02-9'

E407162-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2430007	
Benzene	ND	0.0250	1	07/22/24	07/22/24	
Ethylbenzene	ND	0.0250	1	07/22/24	07/22/24	
Toluene	ND	0.0250	1	07/22/24	07/22/24	
o-Xylene	ND	0.0250	1	07/22/24	07/22/24	
p,m-Xylene	ND	0.0500	1	07/22/24	07/22/24	
Total Xylenes	ND	0.0250	1	07/22/24	07/22/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		07/22/24	07/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2430007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/24	07/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/22/24	07/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2430001	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/22/24	07/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/22/24	07/22/24	
Surrogate: n-Nonane	101 %	50-200		07/22/24	07/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2430006	
Chloride	78.2	20.0	1	07/22/24	07/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/23/2024 1:34:12PM
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BH03-10'

E407162-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2430007	
Benzene	ND	0.0250	1	07/22/24	07/22/24	
Ethylbenzene	ND	0.0250	1	07/22/24	07/22/24	
Toluene	ND	0.0250	1	07/22/24	07/22/24	
o-Xylene	ND	0.0250	1	07/22/24	07/22/24	
p,m-Xylene	ND	0.0500	1	07/22/24	07/22/24	
Total Xylenes	ND	0.0250	1	07/22/24	07/22/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		07/22/24	07/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2430007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/24	07/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		07/22/24	07/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2430001	
Diesel Range Organics (C10-C28)	26.7	25.0	1	07/22/24	07/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/22/24	07/22/24	
Surrogate: n-Nonane	104 %	50-200		07/22/24	07/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2430006	
Chloride	647	20.0	1	07/22/24	07/22/24	



Sample Data

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

Project Name: Spica 25 federal #004H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
7/23/2024 1:34:12PM

BH03-12'

E407162-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2430007	
Benzene	ND	0.0250	1	07/22/24	07/22/24	
Ethylbenzene	ND	0.0250	1	07/22/24	07/22/24	
Toluene	ND	0.0250	1	07/22/24	07/22/24	
o-Xylene	ND	0.0250	1	07/22/24	07/22/24	
p,m-Xylene	ND	0.0500	1	07/22/24	07/22/24	
Total Xylenes	ND	0.0250	1	07/22/24	07/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		07/22/24	07/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2430007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/22/24	07/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/22/24	07/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2430001	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/22/24	07/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/22/24	07/22/24	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		07/22/24	07/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2430006	
Chloride	469	20.0	1	07/22/24	07/22/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/23/2024 1:34:12PM

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 (2430007-BLK1) Prepared: 07/22/24 Analyzed: 07/22/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

LCS (2430007-BS1) Prepared: 07/22/24 Analyzed: 07/22/24

Benzene	5.08	0.0250	5.00		102	70-130			
Ethylbenzene	4.74	0.0250	5.00		94.9	70-130			
Toluene	4.99	0.0250	5.00		99.7	70-130			
o-Xylene	4.82	0.0250	5.00		96.5	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike (2430007-MS1) Source: E407158-05 Prepared: 07/22/24 Analyzed: 07/22/24

Benzene	5.68	0.0250	5.00	ND	114	54-133			
Ethylbenzene	5.30	0.0250	5.00	ND	106	61-133			
Toluene	5.59	0.0250	5.00	ND	112	61-130			
o-Xylene	5.42	0.0250	5.00	ND	108	63-131			
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131			
Total Xylenes	16.3	0.0250	15.0	ND	109	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

Matrix Spike Dup (2430007-MSD1) Source: E407158-05 Prepared: 07/22/24 Analyzed: 07/22/24

Benzene	5.59	0.0250	5.00	ND	112	54-133	1.54	20	
Ethylbenzene	5.23	0.0250	5.00	ND	105	61-133	1.46	20	
Toluene	5.51	0.0250	5.00	ND	110	61-130	1.38	20	
o-Xylene	5.33	0.0250	5.00	ND	107	63-131	1.60	20	
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131	1.35	20	
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131	1.43	20	
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.7	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/23/2024 1:34:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430007-BLK1) Prepared: 07/22/24 Analyzed: 07/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.55		8.00		107	70-130			

LCS (2430007-BS2) Prepared: 07/22/24 Analyzed: 07/22/24

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.61		8.00		108	70-130			

Matrix Spike (2430007-MS2) Source: E407158-05 Prepared: 07/22/24 Analyzed: 07/22/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.63		8.00		108	70-130			

Matrix Spike Dup (2430007-MSD2) Source: E407158-05 Prepared: 07/22/24 Analyzed: 07/22/24

Gasoline Range Organics (C6-C10)	40.6	20.0	50.0	ND	81.3	70-130	10.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.50		8.00		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/23/2024 1:34:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430001-BLK1) Prepared: 07/22/24 Analyzed: 07/22/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.4		50.0		101	50-200			

LCS (2430001-BS1) Prepared: 07/22/24 Analyzed: 07/22/24

Diesel Range Organics (C10-C28)	217	25.0	250		87.0	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

Matrix Spike (2430001-MS1) Source: E407162-03 Prepared: 07/22/24 Analyzed: 07/22/24

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.7	38-132			
Surrogate: n-Nonane	51.4		50.0		103	50-200			

Matrix Spike Dup (2430001-MSD1) Source: E407162-03 Prepared: 07/22/24 Analyzed: 07/22/24

Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.5	38-132	0.729	20	
Surrogate: n-Nonane	52.3		50.0		105	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/23/2024 1:34:12PM

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 (2430006-BLK1)					Prepared: 07/22/24 Analyzed: 07/22/24				
Chloride	ND	20.0							
LCS (2430006-BS1)					Prepared: 07/22/24 Analyzed: 07/22/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2430006-MS1)					Source: E407163-01		Prepared: 07/22/24 Analyzed: 07/22/24		
Chloride	289	20.0	250	31.6	103	80-120			
Matrix Spike Dup (2430006-MSD1)					Source: E407163-01		Prepared: 07/22/24 Analyzed: 07/22/24		
Chloride	291	20.0	250	31.6	104	80-120	0.809	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:	Spica 25 federal #004H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/23/24 13:34

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



Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon		Lab WO# E407162		Job Number 01058-0007		1D	2D	3D	Std	NM	CO	UT	TX
Project: Spica 25 Federal #004H				Address: 205 E Bender Road #150										X			
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240													
Address: 3122 National Parks Hwy				Phone: (575)748-1838													
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dv.com													
Phone: 575-988-0055				Miscellaneous: Dale Woodall													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA & Metals	SDWA	CWA	RCRA
14:10	7/18/2024	Soil	1	BH01-5'		1						X					
14:21	7/18/2024	Soil	1	BH01-7'		2						X					
13:13	7/18/2024	Soil	1	BH02-9'		3						X					
10:20	7/18/2024	Soil	1	BH03-10'		4						X					
11:37	7/18/2024	Soil	1	BH03-12'		5						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dv.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Brandon Deal																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)	
[Signature]		07/19/24	10:00	Michelle Gonzales		7-19-24	1000	[Signature]		7-19-24	1630	[Signature]		7-22-24	08:30	[Signature]	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)	
Michelle Gonzales		7-19-24	1600	[Signature]		7-19-24	1630	[Signature]		7-22-24	08:30	[Signature]		7-22-24	08:30	[Signature]	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)	
[Signature]		7-19-24	2245	[Signature]		7-19-24	2245	[Signature]		7-22-24	08:30	[Signature]		7-22-24	08:30	[Signature]	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 7/22/2024 9:44:41AM

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:	07/22/24 08:30	Work Order ID:	E407162
Phone:	(505) 382-1211	Date Logged In:	07/19/24 15:25	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	07/26/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E410288

Job Number: 01058-0007

Received: 10/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/30/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 10/30/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Spica 25 Fed 4H
Workorder: E410288
Date Received: 10/24/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2024 8:00:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/24 15:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS76-0.5'	E410288-01A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS77-0.5'	E410288-02A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS78-0.5'	E410288-03A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS79-0.5'	E410288-04A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS80-0.5'	E410288-05A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS81-0.5'	E410288-06A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS82-0.5'	E410288-07A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS83-0.5'	E410288-08A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS84-0.5'	E410288-09A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS85-0.5'	E410288-10A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS86-0.5'	E410288-11A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS89-0.5'	E410288-12A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS91-0.5'	E410288-13A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS92-0.5'	E410288-14A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS113-0.5'	E410288-15A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS114-0.5'	E410288-16A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS115-0.5'	E410288-17A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS116-0.5'	E410288-18A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS122-0.5'	E410288-19A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS125-0.5'	E410288-20A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/2024 3:39:44PM
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FS76-0.5'

E410288-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		105 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/30/2024 3:39:44PM

FS77-0.5'

E410288-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443149
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		100 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444018
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/2024 3:39:44PM
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FS78-0.5'

E410288-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	29.5	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		106 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/30/2024 3:39:44PM

FS79-0.5'

E410288-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443149
Diesel Range Organics (C10-C28)	31.0	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		110 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444018
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/2024 3:39:44PM
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FS80-0.5'

E410288-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		102 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/2024 3:39:44PM
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FS81-0.5'

E410288-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		106 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/2024 3:39:44PM
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FS82-0.5'

E410288-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		112 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		112 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		98.4 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/30/2024 3:39:44PM

FS83-0.5'

E410288-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443149
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		104 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444018
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/30/2024 3:39:44PM

FS84-0.5'

E410288-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443149
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		102 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444018
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/2024 3:39:44PM
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FS85-0.5'

E410288-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	59.5	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	68.2	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		104 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/30/2024 3:39:44PM

FS86-0.5'

E410288-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		112 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		112 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	28.2	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		101 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/2024 3:39:44PM
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FS89-0.5'

E410288-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		102 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/30/2024 3:39:44PM

FS91-0.5'

E410288-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443149
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		109 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444018
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/2024 3:39:44PM
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FS92-0.5'

E410288-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		103 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/2024 3:39:44PM
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FS113-0.5'
E410288-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		103 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/30/2024 3:39:44PM
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FS114-0.5'
E410288-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		102 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/30/2024 3:39:44PM

FS115-0.5'

E410288-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443149	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		102 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444018	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/30/2024 3:39:44PM

FS116-0.5'

E410288-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443149
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		103 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444018
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/30/2024 3:39:44PM

FS122-0.5'

E410288-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443149
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		105 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444018
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/30/2024 3:39:44PM

FS125-0.5'

E410288-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443149
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		97.0 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444018
Chloride	ND	20.0	1	10/28/24	10/29/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/30/2024 3:39:44PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2443142-BLK1) Prepared: 10/24/24 Analyzed: 10/30/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.565		0.500		113	70-130			

LCS (2443142-BS1) Prepared: 10/24/24 Analyzed: 10/30/24

Benzene	2.23	0.0250	2.50		89.3	70-130			
Ethylbenzene	2.28	0.0250	2.50		91.2	70-130			
Toluene	2.28	0.0250	2.50		91.3	70-130			
o-Xylene	2.45	0.0250	2.50		98.2	70-130			
p,m-Xylene	4.90	0.0500	5.00		98.1	70-130			
Total Xylenes	7.36	0.0250	7.50		98.1	70-130			
Surrogate: Bromofluorobenzene	0.607		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			

LCS Dup (2443142-BSD1) Prepared: 10/24/24 Analyzed: 10/30/24

Benzene	2.32	0.0250	2.50		92.6	70-130	3.65	23	
Ethylbenzene	2.37	0.0250	2.50		94.7	70-130	3.70	27	
Toluene	2.36	0.0250	2.50		94.5	70-130	3.44	24	
o-Xylene	2.58	0.0250	2.50		103	70-130	4.85	27	
p,m-Xylene	5.13	0.0500	5.00		103	70-130	4.46	27	
Total Xylenes	7.70	0.0250	7.50		103	70-130	4.59	27	
Surrogate: Bromofluorobenzene	0.597		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/30/2024 3:39:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2443142-BLK1) Prepared: 10/24/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.565		0.500		113	70-130			

LCS (2443142-BS2) Prepared: 10/24/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	41.4	20.0	50.0		82.7	70-130			
Surrogate: Bromofluorobenzene	0.605		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.568		0.500		114	70-130			

LCS Dup (2443142-BSD2) Prepared: 10/24/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.1	70-130	9.65	20	
Surrogate: Bromofluorobenzene	0.596		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.565		0.500		113	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/30/2024 3:39:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443149-BLK1)					Prepared: 10/24/24 Analyzed: 10/28/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.9		50.0		102	50-200			

LCS (2443149-BS1)					Prepared: 10/24/24 Analyzed: 10/28/24				
Diesel Range Organics (C10-C28)	325	25.0	250		130	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			

Matrix Spike (2443149-MS1)					Source: E410288-07		Prepared: 10/24/24 Analyzed: 10/28/24		
Diesel Range Organics (C10-C28)	331	25.0	250	ND	132	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

Matrix Spike Dup (2443149-MSD1)					Source: E410288-07		Prepared: 10/24/24 Analyzed: 10/28/24		
Diesel Range Organics (C10-C28)	328	25.0	250	ND	131	38-132	0.869	20	
Surrogate: n-Nonane	53.1		50.0		106	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/30/2024 3:39:44PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444018-BLK1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	ND	20.0							
LCS (2444018-BS1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	251	20.0	250		100	90-110			
LCS Dup (2444018-BSD1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	251	20.0	250		100	90-110	0.183	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/30/24 15:39

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



Client: Devon Energy	Bill To	Lab Use Only	TAT	EPA Program
Project: Spine 25 Fed 4H	Attention: Jim Raley	Lab WO# E410288	Job Number 10580007	1D 2D 3D Standard CWA SDWA
Project Manager: Ashley Giovengo	Address: 5315 Buena Vista Dr	Analysis and Method		RCRA
Address: 3122 National Parks Hwy	City, State, Zip: Carlsbad NM, 88220	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260
City, State, Zip: Carlsbad NM, 88220	Phone: (575)689-7597	Metals 6010	Chloride 300.0	BGDOC NM
Phone: 575-988-0055	Email: jim.raley@dvn.com			GDOC TX
Email: agiovengo@ensolum.com				State
Report due by:				NM CO UT AZ TX

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
0948	10/22/24	S	1	FS 76 - 0.5'	1						X		
0950				FS 77 - 0.5'	2								
1007				FS 78 - 0.5'	3								
1005				FS 79 - 0.5'	4								
0951				FS 80 - 0.5'	5								
1002				FS 81 - 0.5'	6								
0954				FS 82 - 0.5'	7								
1001				FS 83 - 0.5'	8								
0959				FS 84 - 0.5'	9								
1008				FS 85 - 0.5'	10								

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, oaderinto@ensolum.com, igonzalez@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: Chad Hamilton

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
	10/23/24	1120	Michelle Gonzales	10/23/24	1120	Received on ice: <input checked="" type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
Michelle Gonzales	10/23/24	1620	L.H.	10/23/24	1730	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
L.H.	10/23/24	2330	Chad Hamilton	10/24/24	8:00	4

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

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

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



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Client: Devon Energy					Bill To		Lab Use Only						TAT			EPA Program					
Project: <u>Spice 25 Fed 4H</u>					Attention: Jim Raley		Lab WO# <u>E410288</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo					Address: 5315 Buena Vista Dr		Analysis and Method									RCRA					
Address: 3122 National Parks Hwy					City, State, Zip: Carlsbad NM, 88220		TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State							
City, State, Zip: Carlsbad NM, 88220														NM	CO	UT	AZ	TX			
Phone: 575-988-0055					Phone: (575)689-7597																
Email: agiovengo@ensolum.com					Email: jim.raley@dvn.com																
Report due by:																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks				
1011	10/22/24	S	1	FS86-0.5'	11									X							
1013				FS89-0.5'	12																
1017				FS91-0.5'	13																
1321				FS92-0.5'	14																
0957				FS113-0.5'	15																
0956				FS114-0.5'	16																
1019				FS115-0.5'	17																
1020				FS116-0.5'	18																
1022				FS122-0.5'	19																
1343				FS125-0.5'	20																
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, oaderinto@ensolum.com, jgonzalez@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													
		10/23/24	1120	Michelle Gonzales		10/23/24	1120	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 _____													
Michelle Gonzales		10/23/24	1620	J.H.		10/23/24	1730														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>													
J.H.		10/23/24	1730	Cuth Ma		10/24/24	8:00														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



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Envirotech Analytical Laboratory

Printed: 10/24/2024 8:50:30AM

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:	10/24/24 08:00	Work Order ID:	E410288
Phone:	(505) 382-1211	Date Logged In:	10/23/24 13:38	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/30/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Spica 25 Fed 4H has been separated into 2 reports due to sample volume. WO are E410288 & E410289.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E410289

Job Number: 01058-0007

Received: 10/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/1/24

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: 11/1/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E410289
Date Received: 10/24/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2024 8:00:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/01/24 10:17
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS126-0.5'	E410289-01A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS128-0.5'	E410289-02A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS129-0.5'	E410289-03A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS130-0.5'	E410289-04A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS131-0.5'	E410289-05A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS143-0.5'	E410289-06A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS144-0.5'	E410289-07A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS145-0.5'	E410289-08A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS148-0.5'	E410289-09A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS149-0.5'	E410289-10A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS150-0.5'	E410289-11A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
FS151-0.5'	E410289-12A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/1/2024 10:17:52AM
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FS126-0.5'
E410289-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	95.2 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/1/2024 10:17:52AM
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FS128-0.5'
E410289-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	94.1 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/1/2024 10:17:52AM
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FS129-0.5'
E410289-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	94.6 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/1/2024 10:17:52AM
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FS130-0.5'
E410289-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	95.3 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/1/2024 10:17:52AM
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FS131-0.5'
E410289-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	88.8 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	90.7 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/1/2024 10:17:52AM
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FS143-0.5'
E410289-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	89.4 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	97.3 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/1/2024 10:17:52AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS144-0.5'
E410289-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	88.7 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	97.3 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/1/2024 10:17:52AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS145-0.5'
E410289-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/31/24	
Toluene	ND	0.0250	1	10/24/24	10/31/24	
o-Xylene	ND	0.0250	1	10/24/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/31/24	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		10/24/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		10/24/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	94.5 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/1/2024 10:17:52AM
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FS148-0.5'
E410289-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/31/24	
Toluene	ND	0.0250	1	10/24/24	10/31/24	
o-Xylene	ND	0.0250	1	10/24/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/31/24	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		10/24/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		10/24/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	93.4 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/1/2024 10:17:52AM
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FS149-0.5'
E410289-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/31/24	
Toluene	ND	0.0250	1	10/24/24	10/31/24	
o-Xylene	ND	0.0250	1	10/24/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/31/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		10/24/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		10/24/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	99.3 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/1/2024 10:17:52AM
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FS150-0.5'
E410289-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/31/24	
Toluene	ND	0.0250	1	10/24/24	10/31/24	
o-Xylene	ND	0.0250	1	10/24/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/31/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		10/24/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		10/24/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	98.8 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/1/2024 10:17:52AM
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FS151-0.5'
E410289-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Benzene	ND	0.0250	1	10/24/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/31/24	
Toluene	ND	0.0250	1	10/24/24	10/31/24	
o-Xylene	ND	0.0250	1	10/24/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/31/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		10/24/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2443143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		10/24/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444090	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
Surrogate: n-Nonane	96.4 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2444027	
Chloride	ND	20.0	1	10/28/24	10/28/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/1/2024 10:17:52AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443143-BLK1) Prepared: 10/24/24 Analyzed: 10/30/24

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	7.15		8.00		89.4	70-130			

LCS (2443143-BS1) Prepared: 10/24/24 Analyzed: 10/30/24

Benzene	4.56	0.0250	5.00		91.2	70-130			
Ethylbenzene	4.38	0.0250	5.00		87.7	70-130			
Toluene	4.49	0.0250	5.00		89.8	70-130			
o-Xylene	4.37	0.0250	5.00		87.5	70-130			
p,m-Xylene	8.93	0.0500	10.0		89.3	70-130			
Total Xylenes	13.3	0.0250	15.0		88.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			

LCS Dup (2443143-BSD1) Prepared: 10/24/24 Analyzed: 10/30/24

Benzene	4.99	0.0250	5.00		99.8	70-130	9.02	20	
Ethylbenzene	4.80	0.0250	5.00		96.1	70-130	9.11	20	
Toluene	4.91	0.0250	5.00		98.2	70-130	8.97	20	
o-Xylene	4.79	0.0250	5.00		95.8	70-130	9.07	20	
p,m-Xylene	9.75	0.0500	10.0		97.5	70-130	8.77	20	
Total Xylenes	14.5	0.0250	15.0		96.9	70-130	8.87	20	
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.7	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/1/2024 10:17:52AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443143-BLK1) Prepared: 10/24/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			

LCS (2443143-BS2) Prepared: 10/24/24 Analyzed: 10/31/24

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

LCS Dup (2443143-BSD2) Prepared: 10/24/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	36.1	20.0	50.0		72.1	70-130	19.2	20	S1
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/1/2024 10:17:52AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444090-BLK1) Prepared: 10/30/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.4		50.0		103	50-200			

LCS (2444090-BS1) Prepared: 10/30/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			

LCS Dup (2444090-BSD1) Prepared: 10/30/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	250	25.0	250		99.9	38-132	1.04	20	
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/1/2024 10:17:52AM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2444027-BLK1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	ND	20.0							
LCS (2444027-BS1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	250	20.0	250		100	90-110			
LCS Dup (2444027-BSD1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	250	20.0	250		99.9	90-110	0.191	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/01/24 10:17

- S1 Surrogate spike recovery was outside of the established acceptance limits.
- 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: <u>Spica 25 Fed 4H</u>					Attention: Jim Raley		Lab WO# <u>E410289</u>		Job Number <u>01058-0007</u>				1D	2D	3D	Standard	CWA	SDWA																																																										
Project Manager: Ashley Gioveno					Address: 5315 Buena Vista Dr		Analysis and Method										RCRA																																																											
Address: 3122 National Parks Hwy					City, State, Zip: Carlsbad NM, 88220																																																																							
City, State, Zip: Carlsbad NM, 88220					Phone: (575)689-7597		State										Remarks																																																											
Phone: 575-988-0055					Email: jim.raley@dmv.com																																																																							
Email: agioveno@ensolum.com					Report due by:		TPH GRO/DRO/ORO by 8015										BTEX by 8021										VOC by 8260										Metals 6010										Chloride 300.0										BGDOC NM										GDOC TX									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																																																																							
1341	10/22/24	S	1	FS126-0.5'	1																																																																							
1338				FS128-0.5'	2																																																																							
1340				FS129-0.5'	3																																																																							
1336				FS130-0.5'	4																																																																							
1335				FS131-0.5'	5																																																																							
1331				FS143-0.5'	6																																																																							
1333				FS144-0.5'	7																																																																							
1330				FS145-0.5'	8																																																																							
1325				FS148-0.5'	9																																																																							
1329				FS149-0.5'	10																																																																							
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, oaderinto@ensolum.com, jgonzalez@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																																																																
<u>Michelle Gonzales</u>		10/23/24		1120		<u>Michelle Gonzales</u>		10/23/24		1120		Received on ice: <u>Y</u> / N																																																																
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____																																																																
<u>J.H.</u>		10/23/24		1620		<u>J.H.</u>		10/23/24		1730																																																																		
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>																																																																
<u>J.H.</u>		10/23/24		2330		<u>Chad Hamilton</u>		10/24/24		8.00																																																																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																																																
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																																																												



Client: Devon Energy					Bill To					Lab Use Only					TAT				EPA Program											
Project: <u>Spica 25 Fed 4H</u>					Attention: Jim Raley					Lab WO# <u>E410289</u>					Job Number <u>01058-0007</u>				1D		2D		3D		Standard		CWA		SDWA	
Project Manager: Ashley Giovengo					Address: 5315 Buena Vista Dr					Analysis and Method																				
Address: 3122 National Parks Hwy					City, State, Zip: Carlsbad NM, 88220																									
City, State, Zip: Carlsbad NM, 88220					Phone: (575)689-7597																									
Phone: 575-988-0055					Email: jim.raley@dnv.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	Remarks																	
1327	10/22/24	S	1	FS150-0.5'	11						X																			
1324	10/22/24	S	1	FS151-0.5'	12						X																			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, oaderinto@ensolum.com, jgonzalez@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 5 °C on subsequent days.															
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>10/23/24</u>		Time <u>1120</u>		Received by: (Signature) <u>Michelle Gonzales</u>					Date <u>10-23-24</u>		Time <u>1120</u>		Lab Use Only												
Relinquished by: (Signature) <u>Michelle Gonzales</u>					Date <u>10-23-24</u>		Time <u>1620</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>10.23.24</u>		Time <u>1730</u>		Received on ice: <u>Y</u> / N												
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>10.23.24</u>		Time <u>2330</u>		Received by: (Signature) <u>Carth Ma</u>					Date <u>10-24-24</u>		Time <u>8:00</u>		T1 _____ T2 _____ T3 _____												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____															Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																														

Envirotech Analytical Laboratory

Printed: 10/24/2024 8:51:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	10/24/24 08:00	Work Order ID:	E410289
Phone:	(505) 382-1211	Date Logged In:	10/23/24 13:44	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/30/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Spica 25 Fed 4H has been separated into 2 reports due to sample volume. WO are E410288 & E410289.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E410314

Job Number: 01058-0007

Received: 10/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 10/31/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Spica 25 Fed 4H
Workorder: E410314
Date Received: 10/25/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/25/2024 5:30:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 10/31/24 11:06
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
FS44-0.5'	E410314-01A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS46-0.5'	E410314-02A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS53-0.5'	E410314-03A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS56-0.5'	E410314-04A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS121-0.5'	E410314-05A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS124-0.5'	E410314-06A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS127-0.5'	E410314-07A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS132-0.5'	E410314-08A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS133-0.5'	E410314-09A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS134-0.5'	E410314-10A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS135-0.5'	E410314-11A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS136-0.5'	E410314-12A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS137-0.5'	E410314-13A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS138-0.5'	E410314-14A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS139-0.5'	E410314-15A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS140-0.5'	E410314-16A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS141-0.5'	E410314-17A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS142-0.5'	E410314-18A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS146-0.5'	E410314-19A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.
FS147-0.5'	E410314-20A	Soil	10/23/24	10/25/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS44-0.5'

E410314-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2443188	
Benzene	ND	0.0250	1	10/25/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/30/24	
Toluene	ND	0.0250	1	10/25/24	10/30/24	
o-Xylene	ND	0.0250	1	10/25/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene		100 %	70-130	10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	10/25/24	10/30/24	
Surrogate: Toluene-d8		104 %	70-130	10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2443188	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene		100 %	70-130	10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	10/25/24	10/30/24	
Surrogate: Toluene-d8		104 %	70-130	10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2443225	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/29/24	
Surrogate: n-Nonane		97.4 %	50-200	10/26/24	10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444035	
Chloride	ND	20.0	1	10/28/24	10/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS46-0.5'

E410314-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2443188	
Benzene	ND	0.0250	1	10/25/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/30/24	
Toluene	ND	0.0250	1	10/25/24	10/30/24	
o-Xylene	ND	0.0250	1	10/25/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2443188	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443225	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/29/24	
Surrogate: n-Nonane	96.8 %	50-200		10/26/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444035	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS53-0.5'

E410314-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/30/24	
Toluene	ND	0.0250	1	10/25/24	10/30/24	
o-Xylene	ND	0.0250	1	10/25/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	43.8	25.0	1	10/26/24	10/29/24	
Oil Range Organics (C28-C36)	50.8	50.0	1	10/26/24	10/29/24	
Surrogate: n-Nonane	96.6 %	50-200		10/26/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS56-0.5'

E410314-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2443188	
Benzene	ND	0.0250	1	10/25/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/30/24	
Toluene	ND	0.0250	1	10/25/24	10/30/24	
o-Xylene	ND	0.0250	1	10/25/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	98.8 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	106 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2443188	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	98.8 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	106 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443225	
Diesel Range Organics (C10-C28)	275	25.0	1	10/26/24	10/29/24	
Oil Range Organics (C28-C36)	249	50.0	1	10/26/24	10/29/24	
Surrogate: n-Nonane	99.2 %	50-200		10/26/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444035	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS121-0.5'

E410314-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/30/24	
Toluene	ND	0.0250	1	10/25/24	10/30/24	
o-Xylene	ND	0.0250	1	10/25/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/29/24	
Surrogate: n-Nonane	101 %	50-200		10/26/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS124-0.5'
E410314-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/30/24	
Toluene	ND	0.0250	1	10/25/24	10/30/24	
o-Xylene	ND	0.0250	1	10/25/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/29/24	
Surrogate: n-Nonane	94.5 %	50-200		10/26/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS127-0.5'
E410314-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/30/24	
Toluene	ND	0.0250	1	10/25/24	10/30/24	
o-Xylene	ND	0.0250	1	10/25/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/29/24	
Surrogate: n-Nonane	93.6 %	50-200		10/26/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/31/2024 11:06:42AM

FS132-0.5'

E410314-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/30/24	
Toluene	ND	0.0250	1	10/25/24	10/30/24	
o-Xylene	ND	0.0250	1	10/25/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/30/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		10/25/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		10/25/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/25/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	93.6 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/31/2024 11:06:42AM

FS133-0.5'

E410314-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	98.0 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	103 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	98.0 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	103 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	86.1 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS134-0.5

E410314-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene		100 %	70-130	10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	10/25/24	10/31/24	
Surrogate: Toluene-d8		105 %	70-130	10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene		100 %	70-130	10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	10/25/24	10/31/24	
Surrogate: Toluene-d8		105 %	70-130	10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane		89.5 %	50-200	10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS135-0.5'
E410314-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	99.2 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	106 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	99.2 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	106 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	92.7 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	

Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS136-0.5'
E410314-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	98.1 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	105 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	98.1 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	105 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	95.4 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/31/2024 11:06:42AM

FS137-0.5'

E410314-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	95.0 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	95.0 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	96.8 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/31/2024 11:06:42AM

FS138-0.5'

E410314-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	106 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	106 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	95.3 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS139-0.5'
E410314-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	105 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	105 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	100 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/31/2024 11:06:42AM

FS140-0.5'

E410314-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	99.2 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/31/2024 11:06:42AM

FS141-0.5'

E410314-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	99.4 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/31/2024 11:06:42AM
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FS142-0.5'
E410314-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	102 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	102 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	87.6 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/31/2024 11:06:42AM

FS146-0.5'

E410314-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	104 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	93.7 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/31/2024 11:06:42AM

FS147-0.5'

E410314-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Benzene	ND	0.0250	1	10/25/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/25/24	10/31/24	
Toluene	ND	0.0250	1	10/25/24	10/31/24	
o-Xylene	ND	0.0250	1	10/25/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/25/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	99.2 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443188
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/24	10/31/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		10/25/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		10/25/24	10/31/24	
Surrogate: Toluene-d8	99.2 %	70-130		10/25/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443225
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/24	10/30/24	
Surrogate: n-Nonane	97.4 %	50-200		10/26/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444035
Chloride	ND	20.0	1	10/28/24	10/29/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 10/31/2024 11:06:42AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443188-BLK1) Prepared: 10/25/24 Analyzed: 10/30/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2443188-BS1) Prepared: 10/25/24 Analyzed: 10/30/24

Benzene	2.18	0.0250	2.50		87.4	70-130			
Ethylbenzene	2.52	0.0250	2.50		101	70-130			
Toluene	2.44	0.0250	2.50		97.5	70-130			
o-Xylene	2.54	0.0250	2.50		101	70-130			
p,m-Xylene	5.08	0.0500	5.00		102	70-130			
Total Xylenes	7.62	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS Dup (2443188-BSD1) Prepared: 10/25/24 Analyzed: 10/30/24

Benzene	2.31	0.0250	2.50		92.6	70-130	5.78	23	
Ethylbenzene	2.56	0.0250	2.50		102	70-130	1.30	27	
Toluene	2.47	0.0250	2.50		98.6	70-130	1.12	24	
o-Xylene	2.64	0.0250	2.50		106	70-130	4.19	27	
p,m-Xylene	5.30	0.0500	5.00		106	70-130	4.24	27	
Total Xylenes	7.95	0.0250	7.50		106	70-130	4.22	27	
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 10/31/2024 11:06:42AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443188-BLK1) Prepared: 10/25/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2443188-BS2) Prepared: 10/25/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS Dup (2443188-BSD2) Prepared: 10/25/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130	5.43	20	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/31/2024 11:06:42AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2443225-BLK1) Prepared: 10/26/24 Analyzed: 10/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.1		50.0		106	50-200			

LCS (2443225-BS1) Prepared: 10/26/24 Analyzed: 10/29/24

Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

LCS Dup (2443225-BSD1) Prepared: 10/26/24 Analyzed: 10/29/24

Diesel Range Organics (C10-C28)	247	25.0	250		98.9	38-132	6.20	20	
Surrogate: n-Nonane	52.8		50.0		106	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/31/2024 11:06:42AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444035-BLK1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	ND	20.0							
LCS (2444035-BS1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	255	20.0	250		102	90-110			
LCS Dup (2444035-BSD1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	255	20.0	250		102	90-110	0.0671	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/31/24 11:06

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



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr		E410314		01058-0007					x	x			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
0844	10/23/24	S	1	FS44-0.5'		1						X					
0850				FS46-0.5'		2						X					
0851				FS53-0.5'		3						X					
0856				FS56-0.5'		4						X					
0904				FS121-0.5'		5						X					
0901				FS124-0.5'		6						X					
0903				FS127-0.5'		7						X					
0906				FS132-0.5'		8						X					
0908				FS133-CH-0.5'		9						X					
0915				FS134-0.5'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com, jgonzales@ensolum.com, oaderinto@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Chad Hamilton, Higinio Gonzales																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Chain of Custody

Page 2 of 2

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Devon				Company: Devon				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr				E 410314		01058-0007					x	x			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: (575)689-7597															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com															
Phone: 575-988-0055				Miscellaneous: Jim Raley															
Email: agiovengo@ensolum.com																			
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
															Compliance	Y	or	N	
															PWSID #				
															Remarks				
0903	10/23/24	S	1	FS135-0.5'		11						X							
0909				FS136-0.5'		12													
0911				FS137-0.5'		13													
0905				FS138-0.5'		14													
0911				FS139-0.5'		15													
0907				FS140-0.5'		16													
0900				FS141-0.5'		17													
0857				FS142-0.5'		18													
0854				FS144-0.5'		19													
0851				FS147-0.5'		20													
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, chamilton@ensolum.com, lestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com, jgonzales@ensolum.com, oaderinto@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Chad Hamilton																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: ①/ N T1 _____ T2 _____ T3 _____ AVG Temp °C 4											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Envirotech Analytical Laboratory

Printed: 10/25/2024 10:56:18AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	10/25/24 05:30	Work Order ID:	E410314
Phone:	(505) 382-1211	Date Logged In:	10/25/24 06:13	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	10/31/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E410339

Job Number: 01058-0007

Received: 10/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/5/24

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: 11/5/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E410339
Date Received: 10/26/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/26/2024 8:00:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/05/24 15:00
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS28-4'	E410339-01A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS29-4'	E410339-02A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS31-4'	E410339-03A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS32-4'	E410339-04A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS49-4'	E410339-05A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS57-4'	E410339-06A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS72-0.5'	E410339-07A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS74-0.5'	E410339-08A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS90-0.5'	E410339-09A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS93-0.5'	E410339-10A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS98-0.5'	E410339-11A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS104-0.5'	E410339-12A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS105-0.5'	E410339-13A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS106-0.5'	E410339-14A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS107-0.5'	E410339-15A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS108-0.5'	E410339-16A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS110-0.5'	E410339-17A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS111-0.5'	E410339-18A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS112-0.5'	E410339-19A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS117-0.5'	E410339-20A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS118-0.5'	E410339-21A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS119-0.5'	E410339-22A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS120-0.5'	E410339-23A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.
FS123-0.5'	E410339-24A	Soil	10/24/24	10/26/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/5/2024 3:00:12PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS28-4'
E410339-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/03/24	
Surrogate: n-Nonane	87.5 %	50-200		10/28/24	11/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	3380	40.0	2	10/30/24	10/30/24	

Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS29-4'

E410339-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	92.2	25.0	1	10/28/24	11/03/24	
Oil Range Organics (C28-C36)	76.0	50.0	1	10/28/24	11/03/24	
Surrogate: n-Nonane	88.9 %	50-200		10/28/24	11/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	41.9	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/5/2024 3:00:12PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS31-4'
E410339-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	93.4 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	1180	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS32-4'
E410339-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	100 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/5/2024 3:00:12PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS49-4'
E410339-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	95.3 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	128	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS57-4'

E410339-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.9 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.2 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	124	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	83.0	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	99.2 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS72-0.5'

E410339-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	83.2	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	91.6	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	97.5 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS74-0.5'

E410339-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	97.3 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/5/2024 3:00:12PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS90-0.5'

E410339-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.6 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	26.9	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	105 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS93-0.5'

E410339-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.3 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	103 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS98-0.5'

E410339-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	101 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS104-0.5'
E410339-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	96.2 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS105-0.5'
E410339-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	116 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS106-0.5'
E410339-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	97.4 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 3:00:12PM

FS107-0.5'

E410339-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	96.3 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS108-0.5'
E410339-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	97.3 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS110-0.5'
E410339-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	89.9 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	103 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS111-0.5'
E410339-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	89.7 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	100 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS112-0.5'
E410339-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	89.2 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	35.6	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	55.8	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	118 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS117-0.5'
E410339-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	89.7 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.4 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444025	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	154 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444086	
Chloride	ND	20.0	1	10/30/24	10/31/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS118-0.5'
E410339-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444031	
Benzene	ND	0.0250	1	10/28/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/28/24	10/30/24	
Toluene	ND	0.0250	1	10/28/24	10/30/24	
o-Xylene	ND	0.0250	1	10/28/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/28/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/28/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		10/28/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		10/28/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444033	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/05/24	
Surrogate: n-Nonane	108 %	50-200		10/28/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2444030	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS119-0.5'
E410339-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444031	
Benzene	ND	0.0250	1	10/28/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/28/24	10/30/24	
Toluene	ND	0.0250	1	10/28/24	10/30/24	
o-Xylene	ND	0.0250	1	10/28/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/28/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/28/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		10/28/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		10/28/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444033	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/05/24	
Surrogate: n-Nonane	88.0 %	50-200		10/28/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2444030	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS120-0.5'
E410339-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444031	
Benzene	ND	0.0250	1	10/28/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/28/24	10/30/24	
Toluene	ND	0.0250	1	10/28/24	10/30/24	
o-Xylene	ND	0.0250	1	10/28/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/28/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/28/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		10/28/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		10/28/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444033	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/05/24	
Surrogate: n-Nonane	89.3 %	50-200		10/28/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2444030	
Chloride	ND	20.0	1	10/28/24	10/29/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 3:00:12PM
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FS123-0.5'
E410339-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444031	
Benzene	ND	0.0250	1	10/28/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/28/24	10/30/24	
Toluene	ND	0.0250	1	10/28/24	10/30/24	
o-Xylene	ND	0.0250	1	10/28/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/28/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/28/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		10/28/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		10/28/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444033	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/05/24	
Surrogate: n-Nonane	88.3 %	50-200		10/28/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2444030	
Chloride	ND	20.0	1	10/28/24	10/29/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 3:00:12PM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2444015-BLK1) Prepared: 10/28/24 Analyzed: 11/02/24

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	7.11		8.00		88.9	70-130			

LCS (2444015-BS1) Prepared: 10/28/24 Analyzed: 11/02/24

Benzene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.1	70-130			
Toluene	4.75	0.0250	5.00		94.9	70-130			
o-Xylene	4.65	0.0250	5.00		93.0	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	7.13		8.00		89.1	70-130			

LCS Dup (2444015-BSD1) Prepared: 10/28/24 Analyzed: 11/02/24

Benzene	4.82	0.0250	5.00		96.5	70-130	1.11	20	
Ethylbenzene	4.72	0.0250	5.00		94.4	70-130	1.41	20	
Toluene	4.81	0.0250	5.00		96.1	70-130	1.24	20	
o-Xylene	4.74	0.0250	5.00		94.7	70-130	1.85	20	
p,m-Xylene	9.59	0.0500	10.0		95.9	70-130	1.32	20	
Total Xylenes	14.3	0.0250	15.0		95.5	70-130	1.50	20	
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 3:00:12PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444031-BLK1) Prepared: 10/28/24 Analyzed: 10/30/24

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	7.17		8.00		89.7	70-130			

LCS (2444031-BS1) Prepared: 10/28/24 Analyzed: 10/30/24

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.9	70-130			
Toluene	4.95	0.0250	5.00		99.0	70-130			
o-Xylene	4.82	0.0250	5.00		96.4	70-130			
p,m-Xylene	9.83	0.0500	10.0		98.3	70-130			
Total Xylenes	14.7	0.0250	15.0		97.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.9	70-130			

LCS Dup (2444031-BSD1) Prepared: 10/28/24 Analyzed: 10/30/24

Benzene	4.99	0.0250	5.00		99.7	70-130	0.699	20	
Ethylbenzene	4.80	0.0250	5.00		95.9	70-130	0.972	20	
Toluene	4.90	0.0250	5.00		98.0	70-130	0.989	20	
o-Xylene	4.77	0.0250	5.00		95.4	70-130	0.958	20	
p,m-Xylene	9.68	0.0500	10.0		96.8	70-130	1.59	20	
Total Xylenes	14.5	0.0250	15.0		96.3	70-130	1.38	20	
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 3:00:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444015-BLK1) Prepared: 10/28/24 Analyzed: 11/02/24

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

LCS (2444015-BS2) Prepared: 10/28/24 Analyzed: 11/02/24

Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			

LCS Dup (2444015-BSD2) Prepared: 10/28/24 Analyzed: 11/02/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.2	70-130	10.6	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.7	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 3:00:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444031-BLK1) Prepared: 10/28/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

LCS (2444031-BS2) Prepared: 10/28/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0		79.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			

LCS Dup (2444031-BSD2) Prepared: 10/28/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0		80.6	70-130	0.874	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 3:00:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444025-BLK1) Prepared: 10/28/24 Analyzed: 11/03/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.4		50.0		107	50-200			

LCS (2444025-BS1) Prepared: 10/28/24 Analyzed: 11/03/24

Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132			
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			

LCS Dup (2444025-BSD1) Prepared: 10/28/24 Analyzed: 11/03/24

Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132	3.57	20	
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 3:00:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2444033-BLK1) Prepared: 10/28/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.7		50.0		107	50-200			

LCS (2444033-BS1) Prepared: 10/28/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			

LCS Dup (2444033-BSD1) Prepared: 10/28/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132	6.25	20	
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 3:00:12PM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2444030-BLK1)	Prepared: 10/28/24 Analyzed: 10/29/24								
Chloride	ND	20.0							
LCS (2444030-BS1)	Prepared: 10/28/24 Analyzed: 10/29/24								
Chloride	254	20.0	250		102	90-110			
LCS Dup (2444030-BSD1)	Prepared: 10/28/24 Analyzed: 10/29/24								
Chloride	253	20.0	250		101	90-110	0.323	20	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 3:00:12PM

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 (2444086-BLK1)					Prepared: 10/30/24 Analyzed: 10/30/24				
Chloride	ND	20.0							
LCS (2444086-BS1)					Prepared: 10/30/24 Analyzed: 10/30/24				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2444086-BSD1)					Prepared: 10/30/24 Analyzed: 10/30/24				
Chloride	252	20.0	250		101	90-110	0.0274	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/05/24 15:00

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



Chain of Custody

Page 1 of 3

Client Information					Invoice Information		Lab Use Only		TAT				State					
Client: Devon					Company: Devon		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Spica 25 Fed 4H					Address: 205 E Bender Road #150		E410339		Job Number 01058-0057				X					
Project Manager: Ashley Giovengo					City, State, Zip: Hobbs NM, 88240													
Address: 3122 National Parks Hwy					Phone: (575)748-1838													
City, State, Zip: Carlsbad NM, 88220					Email: dale.woodall@dv.com													
Phone: 575-988-0055					Miscellaneous: Dale Woodall													
Email: agiovengo@ensolum.com																		
Sample Information					Analysis and Method										EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCFQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
0824	10/24/24	S	1	FS28-4'		1						X						
0825				FS29-4'		2												
0814				FS31-4'		3												
0818				FS32-4'		4												
0815				FS49-4'		5												
0806				FS57-4'		6												
0944				FS72-0.5'		7												
0951				FS74-0.5'		8												
0922				FS90-0.5'		9												
0923				FS93-0.5'		10												
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dv.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com, igonzales@ensolum.com, oaderinto@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Chad Hamilton <i>Hegaina Gonzales</i>																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____								
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Devon				Company: Devon		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project: Spica 25 Fed 4H				Address: 205 E Bender Road #150		E410339	010580007				X	X						
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240														
Address: 3122 National Parks Hwy				Phone: (575)748-1838														
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com														
Phone: 575-988-0055				Miscellaneous: Dale Woodall														
Email: agiovengo@ensolum.com																		
Sample Information										Analysis and Method				EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	RGDOC - NM	TCFQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Remarks			
0926	10/24/24	S	1	FS98 - 0.5'		11						X						
0947				FS104 - 0.5'		12												
0949				FS105 - 0.5'		13												
0945				FS106 - 0.5'		14												
0947				FS107 - 0.5'		15												
0936				FS108 - 0.5'		16												
0938				FS110 - 0.5'		17												
0940				FS111 - 0.5'		18												
0934				FS112 - 0.5'		19												
0928				FS117 - 0.5'		20												
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com, igonzales@ensolum.com, oaderinto@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Chad Hamilton <i>Higinia Gonzalez</i>																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v / VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Page 3 of 3



envirotech

Envirotech Analytical Laboratory

Printed: 10/28/2024 2:31:24PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	10/26/24 08:00	Work Order ID:	E410339
Phone:	(505) 382-1211	Date Logged In:	10/26/24 09:26	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	11/01/24 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: Spica 25 Fed 4H

Work Order: E410347

Job Number: 01058-0007

Received: 10/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/5/24

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: 11/5/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Spica 25 Fed 4H
Workorder: E410347
Date Received: 10/29/2024 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/29/2024 7:30:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/05/24 10:48
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
FS05-4'	E410347-01A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS08-4'	E410347-02A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS09-4'	E410347-03A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS15-0'	E410347-04A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS17-4'	E410347-05A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS18-4'	E410347-06A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS19-0'	E410347-07A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS20-0'	E410347-08A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS21-0'	E410347-09A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS22-0'	E410347-10A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS25-0'	E410347-11A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS30-4'	E410347-12A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS33-4'	E410347-13A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS35-4'	E410347-14A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS38-0'	E410347-15A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS39-0'	E410347-16A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS40-0'	E410347-17A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS41-0'	E410347-18A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS42-0'	E410347-19A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
FS43-0'	E410347-20A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
SW01-0-4'	E410347-21A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
SW02-0-4'	E410347-22A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
SW04-0-4'	E410347-23A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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FS05-4'
E410347-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		89.9 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	20.2	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS08-4'

E410347-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	82.2	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	52.1	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		79.8 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	58.0	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS09-4'

E410347-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444039
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444054
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		77.4 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444091
Chloride	ND	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS15-0'

E410347-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		110 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		110 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	42.6	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		79.1 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	1900	20.0	1	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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FS17-4'
E410347-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		91.8 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	23.2	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS18-4'

E410347-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	45.4	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		80.9 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	430	20.0	1	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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FS19-0'
E410347-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	27.1	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		85.8 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	979	20.0	1	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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FS20-0'
E410347-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		91.3 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	1430	20.0	1	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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FS21-0'
E410347-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		110 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		110 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		87.0 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	94.8	20.0	1	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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FS22-0'

E410347-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	115	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	97.2	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		84.8 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	589	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS25-0'

E410347-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		110 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		110 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		90.0 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	147	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS30-4'

E410347-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		92.8 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	89.6	20.0	1	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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FS33-4'
E410347-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	66.8	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		93.0 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	ND	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS35-4'

E410347-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	65.3	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		86.7 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	28.8	20.0	1	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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FS38-0'
E410347-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		108 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		108 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		88.6 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	438	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS39-0'

E410347-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444039
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444054
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		89.5 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444091
Chloride	713	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS40-0'

E410347-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		96.6 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	781	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS41-0'

E410347-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		112 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		112 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	38.1	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		86.2 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	735	20.0	1	10/30/24	11/01/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/5/2024 10:48:39AM

FS42-0'

E410347-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		86.8 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	1530	20.0	1	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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FS43-0'

E410347-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		88.5 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		88.5 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444054	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		94.9 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444091	
Chloride	3620	40.0	2	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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SW01-0-4'
E410347-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444053	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.2 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444047	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	89.9 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	20.0	1	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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SW02-0-4'
E410347-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444053	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444047	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	92.2 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	20.0	1	10/30/24	11/01/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/5/2024 10:48:39AM
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SW04-0-4'
E410347-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444053	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444047	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	93.1 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	20.0	1	10/30/24	11/01/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/5/2024 10:48:39AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444039-BLK1)

Prepared: 10/29/24 Analyzed: 11/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.578		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			

LCS (2444039-BS1)

Prepared: 10/29/24 Analyzed: 11/02/24

Benzene	2.36	0.0250	2.50		94.2	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.4	70-130			
Toluene	2.48	0.0250	2.50		99.0	70-130			
o-Xylene	2.61	0.0250	2.50		104	70-130			
p,m-Xylene	5.18	0.0500	5.00		104	70-130			
Total Xylenes	7.78	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

LCS Dup (2444039-BSD1)

Prepared: 10/29/24 Analyzed: 11/02/24

Benzene	2.37	0.0250	2.50		94.9	70-130	0.698	23	
Ethylbenzene	2.48	0.0250	2.50		99.4	70-130	0.0201	27	
Toluene	2.49	0.0250	2.50		99.5	70-130	0.484	24	
o-Xylene	2.60	0.0250	2.50		104	70-130	0.0576	27	
p,m-Xylene	5.20	0.0500	5.00		104	70-130	0.482	27	
Total Xylenes	7.81	0.0250	7.50		104	70-130	0.301	27	
Surrogate: Bromofluorobenzene	0.586		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.553		0.500		111	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 10:48:39AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444053-BLK1) Prepared: 10/29/24 Analyzed: 11/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.3	70-130			

LCS (2444053-BS1) Prepared: 10/29/24 Analyzed: 11/02/24

Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.07	0.0250	5.00		101	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.06	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.9	70-130			

LCS Dup (2444053-BSD1) Prepared: 10/29/24 Analyzed: 11/02/24

Benzene	5.42	0.0250	5.00		108	70-130	4.26	20	
Ethylbenzene	5.30	0.0250	5.00		106	70-130	4.29	20	
Toluene	5.40	0.0250	5.00		108	70-130	4.35	20	
o-Xylene	5.31	0.0250	5.00		106	70-130	4.71	20	
p,m-Xylene	10.7	0.0500	10.0		107	70-130	4.36	20	
Total Xylenes	16.1	0.0250	15.0		107	70-130	4.47	20	
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.7	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 10:48:39AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2444039-BLK1) Prepared: 10/29/24 Analyzed: 11/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.578		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			

LCS (2444039-BS2) Prepared: 10/29/24 Analyzed: 11/02/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: Bromofluorobenzene	0.599		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

LCS Dup (2444039-BSD2) Prepared: 10/29/24 Analyzed: 11/02/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.3	70-130	0.393	20	
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 10:48:39AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444053-BLK1) Prepared: 10/29/24 Analyzed: 11/02/24

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

LCS (2444053-BS2) Prepared: 10/29/24 Analyzed: 11/02/24

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

LCS Dup (2444053-BSD2) Prepared: 10/29/24 Analyzed: 11/02/24

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0		84.8	70-130	2.39	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 10:48:39AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444047-BLK1) Prepared: 10/29/24 Analyzed: 11/02/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.5		50.0		87.1	50-200			

LCS (2444047-BS1) Prepared: 10/29/24 Analyzed: 11/02/24

Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

LCS Dup (2444047-BSD1) Prepared: 10/29/24 Analyzed: 11/02/24

Diesel Range Organics (C10-C28)	284	25.0	250		114	38-132	4.91	20	
Surrogate: n-Nonane	49.7		50.0		99.4	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 10:48:39AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444054-BLK1)					Prepared: 10/29/24 Analyzed: 11/02/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.0	50-200			

LCS (2444054-BS1)					Prepared: 10/29/24 Analyzed: 11/02/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	46.0		50.0		91.9	50-200			

LCS Dup (2444054-BSD1)					Prepared: 10/29/24 Analyzed: 11/02/24				
Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132	2.77	20	
Surrogate: n-Nonane	47.1		50.0		94.1	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 10:48:39AM

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 (2444091-BLK1)	Prepared: 10/30/24 Analyzed: 11/01/24								
Chloride	ND	20.0							
LCS (2444091-BS1)	Prepared: 10/30/24 Analyzed: 11/01/24								
Chloride	255	20.0	250		102	90-110			
LCS Dup (2444091-BSD1)	Prepared: 10/30/24 Analyzed: 11/01/24								
Chloride	255	20.0	250		102	90-110	0.315	20	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/5/2024 10:48:39AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444093-BLK1)					Prepared: 10/30/24 Analyzed: 11/01/24				
Chloride	ND	20.0							
LCS (2444093-BS1)					Prepared: 10/30/24 Analyzed: 11/01/24				
Chloride	249	20.0	250		99.7	90-110			
LCS Dup (2444093-BSD1)					Prepared: 10/30/24 Analyzed: 11/01/24				
Chloride	250	20.0	250		100	90-110	0.237	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/05/24 10:48

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

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

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



Chain of Custody

Page 1 of 3

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: WPX Energy Permian, LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr		E410347		Job Number				01058-0507					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220								X					
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 TX	RCRA 8 Metals	SDWA	CWA	RCRA
1245	10/25/24	S	1	ES05-4'		1						X					
1247				FS08-4'		2											
1249				FS09-4'		3											
0921				FS15-0'		4											
1304				FS17-4'		5											
1307				FS18-4'		6											
0921				FS19-0'		7											
0919				FS20-0'		8											
0910				FS21-0'		9											
0916				FS22-0'		10											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Chad Hamilton, Higinio Gonzales																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: WPX Energy Permian, LLC		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr		E410347		01058-0007					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
0914	10/25/24	S	1	FS25-0'		11						X					
1311				FS30-4'		12											
1307				FS33-4'		13											
1304				FS35-4'		14											
0907				FS38-0'		15											
0905				FS39-0'		16											
0903				FS40-0'		17											
0901				FS41-CH 0'		18											
0852				FS42-0'		19											
0857				FS43-0'		20											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: <u>Chad Hamilton Higinia Gonzales</u>																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
<u>[Signature]</u>		10/28/24	1015	<u>Michelle Gonzales</u>		10-28-24	1015										
<u>Michelle Gonzales</u>		10-28-24	1600	<u>[Signature]</u>		10-28-24	1700										
<u>[Signature]</u>		10-28-24	2315	<u>Nae Solt</u>		10-29-24	0730										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Client Information						Lab Use Only							TAT				State			
Company: WPX Energy Permian, LLC Address: 5315 Buena Vista Dr City, State, Zip: Carlsbad NM, 88220 Phone: (575)689-7597 Email: jim.raley@dv.com Miscellaneous: Jim Raley						Lab WO# E410347		Job Number 01058-0007		1D	2D	3D	Std	NM	CO	UT	TX			
Client: Devon Project: Spica 25 Fed 4H Project Manager: Ashley Gioveno Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agioveno@ensolum.com												X	X							
Sample Information						Analysis and Method										EPA Program				
						DRO/GRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005-TX	RCRA 8 Metals						SDWA	CWA
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number										Compliance Y or N			
														PWSID #						
																	Remarks			
1304	10/25/24	S	1	SW01-O-4'			21						X							
1300	10/25/24	S	1	SW02-O-4'			22						X							
1254	10/25/24	S	1	SW04-O-4'			23						X							
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, jim.raley@dv.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: Chad Hamilton Viginio Gonzalez																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: (Y) / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



envirotech

Envirotech Analytical Laboratory

Printed: 10/29/2024 9:50:47AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	10/29/24 07:30	Work Order ID:	E410347
Phone:	(505) 382-1211	Date Logged In:	10/28/24 16:45	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	11/04/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E410379

Job Number: 01058-0007

Received: 10/31/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/6/24

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: 11/6/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E410379
Date Received: 10/31/2024 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/31/2024 6:30:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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FS75-0.5'	12
FS99-0.5'	13
FS100-0.5'	14
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Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/06/24 10:44
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS06-0'	E410379-01A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS10-0'	E410379-02A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS11-0'	E410379-03A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS12-0'	E410379-04A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS13-0'	E410379-05A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS14-0'	E410379-06A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS73-0.5'	E410379-07A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS75-0.5'	E410379-08A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS99-0.5'	E410379-09A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS100-0.5'	E410379-10A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS101-0.5'	E410379-11A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS102-0.5'	E410379-12A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
FS103-0.5'	E410379-13A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/6/2024 10:44:08AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS06-0'
E410379-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
Surrogate: n-Nonane	110 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	35.8	20.0	1	11/04/24	11/04/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/6/2024 10:44:08AM

FS10-0'

E410379-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444129
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444129
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445022
Chloride	261	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:44:08AM
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FS11-0'

E410379-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	76.4	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	64.8	50.0	1	11/01/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	418	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:44:08AM
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FS12-0'

E410379-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	99.0	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	113	50.0	1	11/01/24	11/04/24	
Surrogate: n-Nonane	108 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	594	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:44:08AM
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FS13-0'

E410379-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.6 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	1740	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:44:08AM
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FS14-0'

E410379-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	34.9	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	432	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:44:08AM
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FS73-0.5'

E410379-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	25.9	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	ND	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:44:08AM
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FS75-0.5'

E410379-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
Surrogate: n-Nonane	113 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	ND	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:44:08AM
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FS99-0.5'

E410379-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.6 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
Surrogate: n-Nonane	112 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	ND	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:44:08AM
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FS100-0.5'
E410379-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
Surrogate: 4-Bromochlorobenzene-PID	90.3 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
Surrogate: n-Nonane	109 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	ND	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:44:08AM
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FS101-0.5'
E410379-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.9 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	ND	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:44:08AM
---	---	-----------------------------------

FS102-0.5'
E410379-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.2 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
Surrogate: n-Nonane	110 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	ND	20.0	1	11/04/24	11/04/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/6/2024 10:44:08AM

FS103-0.5'

E410379-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Benzene	ND	0.0250	1	10/31/24	11/04/24	
Ethylbenzene	ND	0.0250	1	10/31/24	11/04/24	
Toluene	ND	0.0250	1	10/31/24	11/04/24	
o-Xylene	ND	0.0250	1	10/31/24	11/04/24	
p,m-Xylene	ND	0.0500	1	10/31/24	11/04/24	
Total Xylenes	ND	0.0250	1	10/31/24	11/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/24	11/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		10/31/24	11/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	ND	20.0	1	11/04/24	11/04/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/6/2024 10:44:08AM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2444129-BLK1) Prepared: 10/31/24 Analyzed: 11/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.06		8.00		88.2	70-130			

LCS (2444129-BS1) Prepared: 10/31/24 Analyzed: 11/04/24

Benzene	5.08	0.0250	5.00		102	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.03	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	7.12		8.00		89.0	70-130			

LCS Dup (2444129-BSD1) Prepared: 10/31/24 Analyzed: 11/04/24

Benzene	4.93	0.0250	5.00		98.5	70-130	3.01	20	
Ethylbenzene	4.91	0.0250	5.00		98.2	70-130	2.63	20	
Toluene	4.96	0.0250	5.00		99.2	70-130	2.98	20	
o-Xylene	4.91	0.0250	5.00		98.2	70-130	2.48	20	
p,m-Xylene	9.98	0.0500	10.0		99.8	70-130	2.62	20	
Total Xylenes	14.9	0.0250	15.0		99.2	70-130	2.57	20	
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.5	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/6/2024 10:44:08AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444129-BLK1) Prepared: 10/31/24 Analyzed: 11/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

LCS (2444129-BS2) Prepared: 10/31/24 Analyzed: 11/04/24

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS Dup (2444129-BSD2) Prepared: 10/31/24 Analyzed: 11/04/24

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.3	70-130	4.23	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/6/2024 10:44:08AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444146-BLK1) Prepared: 11/01/24 Analyzed: 11/04/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.8		50.0		118	50-200			

LCS (2444146-BS1) Prepared: 11/01/24 Analyzed: 11/04/24

Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	57.1		50.0		114	50-200			

LCS Dup (2444146-BSD1) Prepared: 11/01/24 Analyzed: 11/04/24

Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132	2.53	20	
Surrogate: n-Nonane	55.7		50.0		111	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/6/2024 10:44:08AM

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 (2445022-BLK1)					Prepared: 11/04/24 Analyzed: 11/04/24				
Chloride	ND	20.0							
LCS (2445022-BS1)					Prepared: 11/04/24 Analyzed: 11/04/24				
Chloride	255	20.0	250		102	90-110			
LCS Dup (2445022-BSD1)					Prepared: 11/04/24 Analyzed: 11/04/24				
Chloride	256	20.0	250		103	90-110	0.671	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/06/24 10:44

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



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT		State							
Client: Devon				Company: Devon Energy		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr		E410379	01058-0007				X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information							Analysis and Method					EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1404	10/29/23	S	1	FS06-0'		1						X					
1411				FS10-0'		2											
1409				FS11-0'		3											
1414				FS12-0'		4											
1416				FS13-0'		5											
1407				FS14-0'		6											
0908				FS73-0 ^{CH} 0.5'		7											
0910				FS75-0 ^{CH} 0.5'		8											
0938				FS99-0.5'		9											
0931				FS100-0.5'		10											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: <u>Chad Hamilton</u>																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>(Y)</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Chain of Custody

[illegible]

Envirotech Analytical Laboratory

Printed: 10/31/2024 7:37:45AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	10/31/24 06:30	Work Order ID:	E410379
Phone:	(505) 382-1211	Date Logged In:	10/30/24 14:27	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	11/06/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E410388

Job Number: 01058-0007

Received: 11/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/6/24

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: 11/6/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E410388
Date Received: 11/1/2024 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/1/2024 7:00:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/06/24 10:46

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH07-0'	E410388-01A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
BH07-2'	E410388-02A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
BH07-3'	E410388-03A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
BH07-4	E410388-04A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SW03-0-4'	E410388-05A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:46:37AM
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BH07-0'

E410388-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	0.0503	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	0.0788	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	0.0751	0.0500	1	11/01/24	11/03/24	
Total Xylenes	0.154	0.0250	1	11/01/24	11/03/24	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	14100	250	10	11/01/24	11/04/24	
Oil Range Organics (C28-C36)	5670	500	10	11/01/24	11/04/24	
Surrogate: n-Nonane	101 %	50-200		11/01/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	87.7	20.0	1	11/04/24	11/04/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/6/2024 10:46:37AM

BH07-2'

E410388-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	0.0840	0.0250	1	11/01/24	11/03/24	
Toluene	0.0339	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.2 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	27.0	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444146
Diesel Range Organics (C10-C28)	44.7	25.0	1	11/01/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/05/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		11/01/24	11/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445022
Chloride	43.4	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:46:37AM
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BH07-3'

E410388-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	0.0398	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
Surrogate: 4-Bromochlorobenzene-PID	88.2 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/05/24	
Surrogate: n-Nonane	113 %	50-200		11/01/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	152	20.0	1	11/04/24	11/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/6/2024 10:46:37AM
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BH07-4

E410388-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	0.0516	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.2 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/05/24	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		11/01/24	11/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	332	20.0	1	11/04/24	11/05/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/6/2024 10:46:37AM

SW03-0-4'

E410388-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/05/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/01/24	11/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445022	
Chloride	ND	20.0	1	11/04/24	11/05/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/6/2024 10:46:37AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444143-BLK1) Prepared: 11/01/24 Analyzed: 11/01/24

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	7.05		8.00		88.1	70-130			

LCS (2444143-BS1) Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	5.13	0.0250	5.00		103	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			

LCS Dup (2444143-BS1) Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	5.26	0.0250	5.00		105	70-130	0.147	20	
Ethylbenzene	5.15	0.0250	5.00		103	70-130	0.410	20	
Toluene	5.24	0.0250	5.00		105	70-130	0.281	20	
o-Xylene	5.14	0.0250	5.00		103	70-130	0.298	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	0.367	20	
Total Xylenes	15.6	0.0250	15.0		104	70-130	0.345	20	
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/6/2024 10:46:37AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444143-BLK1) Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

LCS (2444143-BS2) Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0		84.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

LCS Dup (2444143-BSD2) Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.6	70-130	0.641	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/6/2024 10:46:37AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444146-BLK1) Prepared: 11/01/24 Analyzed: 11/04/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.8		50.0		118	50-200			

LCS (2444146-BS1) Prepared: 11/01/24 Analyzed: 11/04/24

Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	57.1		50.0		114	50-200			

LCS Dup (2444146-BSD1) Prepared: 11/01/24 Analyzed: 11/04/24

Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132	2.53	20	
Surrogate: n-Nonane	55.7		50.0		111	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/6/2024 10:46:37AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445022-BLK1)					Prepared: 11/04/24 Analyzed: 11/04/24				
Chloride	ND	20.0							
LCS (2445022-BS1)					Prepared: 11/04/24 Analyzed: 11/04/24				
Chloride	255	20.0	250		102	90-110			
LCS Dup (2445022-BSD1)					Prepared: 11/04/24 Analyzed: 11/04/24				
Chloride	256	20.0	250		103	90-110	0.671	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/06/24 10:46

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



Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT		State							
Client: Devon				Company: Devon Energy		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr		E410388	01058-0007				X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1056	10/30/24	S	1	BH07-0'		1						X					
1101				BH07-2'		2						X					
1103				BH07-3'		3						X					
1105				BH07-4		4						X					
1200				SW03-0-4'		5						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Cad Hamilton, Higinio Gonzales																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Envirotech Analytical Laboratory

Printed: 11/1/2024 8:47:08AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	11/01/24 07:00	Work Order ID:	E410388
Phone:	(505) 382-1211	Date Logged In:	10/31/24 14:57	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	11/07/24 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: Spica 25 Fed 4H

Work Order: E411021

Job Number: 01058-0007

Received: 11/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/24

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: 11/12/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E411021
Date Received: 11/4/2024 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/4/2024 7:30:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/24 11:10

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW05 @ 0-4'	E411021-01A	Soil	10/31/24	11/04/24	Glass Jar, 2 oz.
SW06 @ 0-4'	E411021-02A	Soil	10/31/24	11/04/24	Glass Jar, 2 oz.
SW07 @ 0-4'	E411021-03A	Soil	10/31/24	11/04/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/12/2024 11:10:41AM
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SW05 @ 0-4'

E411021-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2445011	
Benzene	ND	0.0250	1	11/04/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/04/24	11/05/24	
Toluene	ND	0.0250	1	11/04/24	11/05/24	
o-Xylene	ND	0.0250	1	11/04/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/04/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/04/24	11/05/24	
Surrogate: 4-Bromochlorobenzene-PID	99.5 %	70-130		11/04/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2445011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/04/24	11/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.9 %	70-130		11/04/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445010	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/24	11/05/24	
Surrogate: n-Nonane	97.6 %	50-200		11/04/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445029	
Chloride	83.4	20.0	1	11/04/24	11/05/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/12/2024 11:10:41AM

SW06 @ 0-4'

E411021-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2445011	
Benzene	ND	0.0250	1	11/04/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/04/24	11/05/24	
Toluene	ND	0.0250	1	11/04/24	11/05/24	
o-Xylene	ND	0.0250	1	11/04/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/04/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/04/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		11/04/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2445011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/04/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.0 %	70-130		11/04/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445010	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/24	11/05/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		11/04/24	11/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445029	
Chloride	44.2	20.0	1	11/04/24	11/05/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/12/2024 11:10:41AM

SW07 @ 0-4'

E411021-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2445011	
Benzene	ND	0.0250	1	11/04/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/04/24	11/05/24	
Toluene	ND	0.0250	1	11/04/24	11/05/24	
o-Xylene	ND	0.0250	1	11/04/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/04/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/04/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		11/04/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2445011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/04/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.0 %	70-130		11/04/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445010	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/24	11/05/24	
<i>Surrogate: n-Nonane</i>						
	96.3 %	50-200		11/04/24	11/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445029	
Chloride	24.0	20.0	1	11/04/24	11/05/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/2024 11:10:41AM

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 (2445011-BLK1) Prepared: 11/04/24 Analyzed: 11/05/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			

LCS (2445011-BS1) Prepared: 11/04/24 Analyzed: 11/05/24

Benzene	5.27	0.0250	5.00		105	70-130			
Ethylbenzene	5.29	0.0250	5.00		106	70-130			
Toluene	5.34	0.0250	5.00		107	70-130			
o-Xylene	5.31	0.0250	5.00		106	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.09		8.00		101	70-130			

LCS Dup (2445011-BSD1) Prepared: 11/04/24 Analyzed: 11/05/24

Benzene	4.65	0.0250	5.00		93.0	70-130	12.5	20	
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130	12.3	20	
Toluene	4.71	0.0250	5.00		94.3	70-130	12.5	20	
o-Xylene	4.72	0.0250	5.00		94.4	70-130	11.8	20	
p,m-Xylene	9.53	0.0500	10.0		95.3	70-130	12.3	20	
Total Xylenes	14.2	0.0250	15.0		95.0	70-130	12.1	20	
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/2024 11:10:41AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445011-BLK1) Prepared: 11/04/24 Analyzed: 11/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.2	70-130			

LCS (2445011-BS2) Prepared: 11/04/24 Analyzed: 11/05/24

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0		82.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			

LCS Dup (2445011-BSD2) Prepared: 11/04/24 Analyzed: 11/05/24

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.5	70-130	3.67	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/2024 11:10:41AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445010-BLK1) Prepared: 11/04/24 Analyzed: 11/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		96.9	50-200			

LCS (2445010-BS1) Prepared: 11/04/24 Analyzed: 11/05/24

Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

LCS Dup (2445010-BSD1) Prepared: 11/04/24 Analyzed: 11/05/24

Diesel Range Organics (C10-C28)	266	25.0	250		107	38-132	2.72	20	
Surrogate: n-Nonane	53.2		50.0		106	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/2024 11:10:41AM

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 (2445029-BLK1)					Prepared: 11/04/24 Analyzed: 11/05/24				
Chloride	ND	20.0							
LCS (2445029-BS1)					Prepared: 11/04/24 Analyzed: 11/05/24				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2445029-BSD1)					Prepared: 11/04/24 Analyzed: 11/05/24				
Chloride	255	20.0	250		102	90-110	0.688	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/24 11:10

- 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 1 of 1



Envirotech Analytical Laboratory

Printed: 11/4/2024 11:04:15AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	11/04/24 07:30	Work Order ID:	E411021
Phone:	(505) 382-1211	Date Logged In:	11/04/24 08:54	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	11/12/24 17:00 (6 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E411033

Job Number: 01058-0007

Received: 11/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/8/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/8/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E411033
Date Received: 11/5/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/5/2024 7:45:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/08/24 17:07
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
FS58 @ 4'	E411033-01A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
FS61 @ 4'	E411033-02A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
FS63 @ 4'	E411033-03A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/8/2024 5:07:20PM

FS58 @ 4'

E411033-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445035	
Benzene	ND	0.0250	1	11/05/24	11/07/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/07/24	
Toluene	ND	0.0250	1	11/05/24	11/07/24	
o-Xylene	ND	0.0250	1	11/05/24	11/07/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/07/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.3 %	70-130		11/05/24	11/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		11/05/24	11/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445047	
Diesel Range Organics (C10-C28)	586	50.0	2	11/05/24	11/06/24	
Oil Range Organics (C28-C36)	404	100	2	11/05/24	11/06/24	
<i>Surrogate: n-Nonane</i>						
	83.9 %	50-200		11/05/24	11/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445052	
Chloride	ND	20.0	1	11/05/24	11/05/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/8/2024 5:07:20PM
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FS61 @ 4'
E411033-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2445035	
Benzene	ND	0.0250	1	11/05/24	11/07/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/07/24	
Toluene	ND	0.0250	1	11/05/24	11/07/24	
o-Xylene	ND	0.0250	1	11/05/24	11/07/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/07/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/07/24	
Surrogate: 4-Bromochlorobenzene-PID	88.4 %	70-130		11/05/24	11/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2445035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		11/05/24	11/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445047	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/24	11/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/24	11/06/24	
Surrogate: n-Nonane	82.1 %	50-200		11/05/24	11/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445052	
Chloride	ND	20.0	1	11/05/24	11/05/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/8/2024 5:07:20PM
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FS63 @ 4'
E411033-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2445035	
Benzene	ND	0.0250	1	11/05/24	11/07/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/07/24	
Toluene	ND	0.0250	1	11/05/24	11/07/24	
o-Xylene	ND	0.0250	1	11/05/24	11/07/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/07/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/07/24	
Surrogate: 4-Bromochlorobenzene-PID	89.3 %	70-130		11/05/24	11/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2445035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		11/05/24	11/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445047	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/24	11/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/24	11/06/24	
Surrogate: n-Nonane	87.8 %	50-200		11/05/24	11/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445052	
Chloride	ND	20.0	1	11/05/24	11/05/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/8/2024 5:07:20PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445035-BLK1) Prepared: 11/05/24 Analyzed: 11/07/24

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	7.13		8.00		89.1	70-130			

LCS (2445035-BS1) Prepared: 11/05/24 Analyzed: 11/07/24

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.9	70-130			
Toluene	4.98	0.0250	5.00		99.7	70-130			
o-Xylene	4.85	0.0250	5.00		97.0	70-130			
p,m-Xylene	9.83	0.0500	10.0		98.3	70-130			
Total Xylenes	14.7	0.0250	15.0		97.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.17		8.00		89.7	70-130			

LCS Dup (2445035-BSD1) Prepared: 11/05/24 Analyzed: 11/07/24

Benzene	5.21	0.0250	5.00		104	70-130	2.74	20	
Ethylbenzene	5.00	0.0250	5.00		100	70-130	3.15	20	
Toluene	5.12	0.0250	5.00		102	70-130	2.79	20	
o-Xylene	5.01	0.0250	5.00		100	70-130	3.15	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	3.17	20	
Total Xylenes	15.2	0.0250	15.0		101	70-130	3.16	20	
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/8/2024 5:07:20PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445035-BLK1) Prepared: 11/05/24 Analyzed: 11/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.4	70-130			

LCS (2445035-BS2) Prepared: 11/05/24 Analyzed: 11/07/24

Gasoline Range Organics (C6-C10)	39.6	20.0	50.0		79.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			

LCS Dup (2445035-BSD2) Prepared: 11/05/24 Analyzed: 11/07/24

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0		84.3	70-130	6.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/8/2024 5:07:20PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445047-BLK1)					Prepared: 11/05/24 Analyzed: 11/06/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.0		50.0		92.0	50-200			

LCS (2445047-BS1)					Prepared: 11/05/24 Analyzed: 11/06/24				
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	47.5		50.0		95.0	50-200			

Matrix Spike (2445047-MS1)					Source: E411032-07		Prepared: 11/05/24 Analyzed: 11/08/24		
Diesel Range Organics (C10-C28)	4180	50.0	250	2410	711	38-132			M4
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

Matrix Spike Dup (2445047-MSD1)					Source: E411032-07		Prepared: 11/05/24 Analyzed: 11/08/24		
Diesel Range Organics (C10-C28)	2550	50.0	250	2410	58.4	38-132	48.4	20	R3
Surrogate: n-Nonane	44.8		50.0		89.6	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/8/2024 5:07:20PM

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 (2445052-BLK1)					Prepared: 11/05/24 Analyzed: 11/05/24				
Chloride	ND	20.0							
LCS (2445052-BS1)					Prepared: 11/05/24 Analyzed: 11/05/24				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2445052-BSD1)					Prepared: 11/05/24 Analyzed: 11/05/24				
Chloride	255	20.0	250		102	90-110	0.781	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/08/24 17:07

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Client Information				Invoice Information				Lab Use Only						TAT				State					
Client: Devon				Company: Devon Energy				Lab WO# E411033		Job Number 0058-007				1D	2D	3D	Std	NM	CO	UT	TX		
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr													X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																			
Address: 3122 National Parks Hwy				Phone: (575)689-7597																			
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com																			
Phone: 575-988-0055				Miscellaneous: Jim Raley																			
Email: agiovengo@ensolum.com																							
Sample Information										Analysis and Method										EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA					
11:26	11/1/2024	S	1	FS58 @ 4'			1						X										
11:28	11/1/2024	S	1	FS61 @ 4'			2						X										
11:30	11/1/2024	S	1	FS63 @ 4'			3						X										
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, igonzalez@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Higinio Gonzalez																							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																	
[Signature]	11/04/24	10:50	Michelle Gonzales	11-4-24	1050	Lab Use Only																	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice: [X] N																	
[Signature]	11-4-24	1545	[Signature]	11-4-24	1730	T1 T2 T3																	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C 4																	
[Signature]	11-4-24	2345	[Signature]	11-5-24	7:45																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																							
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							

Envirotech Analytical Laboratory

Printed: 11/5/2024 8:44:00AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	11/05/24 07:45	Work Order ID:	E411033
Phone:	(505) 382-1211	Date Logged In:	11/04/24 15:16	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	11/13/24 17:00 (6 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E411044

Job Number: 01058-0007

Received: 11/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/8/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/8/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E411044
Date Received: 11/6/2024 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2024 7:30:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/08/24 14:05
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
FS96 @ 0.5'	E411044-01A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
FS50 @ 1.5'	E411044-02A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
FS51 @ 1.5'	E411044-03A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
FS56 @ 4'	E411044-04A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/8/2024 2:05:31PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS96 @ 0.5'
E411044-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2445057	
Benzene	ND	0.0250	1	11/06/24	11/06/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/06/24	
Toluene	ND	0.0250	1	11/06/24	11/06/24	
o-Xylene	0.0854	0.0250	1	11/06/24	11/06/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/06/24	
Total Xylenes	0.0854	0.0250	1	11/06/24	11/06/24	
Surrogate: 4-Bromochlorobenzene-PID	90.3 %	70-130		11/06/24	11/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2445057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		11/06/24	11/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445058	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/06/24	
Surrogate: n-Nonane	84.9 %	50-200		11/06/24	11/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445061	
Chloride	ND	20.0	1	11/06/24	11/06/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/8/2024 2:05:31PM

FS50 @ 1.5'

E411044-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445057	
Benzene	ND	0.0250	1	11/06/24	11/06/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/06/24	
Toluene	ND	0.0250	1	11/06/24	11/06/24	
o-Xylene	ND	0.0250	1	11/06/24	11/06/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/06/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.2 %	70-130		11/06/24	11/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		11/06/24	11/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445058	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/06/24	
<i>Surrogate: n-Nonane</i>						
	82.6 %	50-200		11/06/24	11/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445061	
Chloride	22.0	20.0	1	11/06/24	11/06/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/8/2024 2:05:31PM
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FS51 @ 1.5'
E411044-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2445057	
Benzene	ND	0.0250	1	11/06/24	11/06/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/06/24	
Toluene	ND	0.0250	1	11/06/24	11/06/24	
o-Xylene	ND	0.0250	1	11/06/24	11/06/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/06/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/06/24	
Surrogate: 4-Bromochlorobenzene-PID	90.6 %	70-130		11/06/24	11/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2445057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		11/06/24	11/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445058	
Diesel Range Organics (C10-C28)	50.1	25.0	1	11/06/24	11/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/06/24	
Surrogate: n-Nonane	85.3 %	50-200		11/06/24	11/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445061	
Chloride	31.2	20.0	1	11/06/24	11/06/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/8/2024 2:05:31PM

FS56 @ 4'

E411044-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2445057
Benzene	ND	0.0250	1	11/06/24	11/07/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/07/24	
Toluene	ND	0.0250	1	11/06/24	11/07/24	
o-Xylene	ND	0.0250	1	11/06/24	11/07/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/07/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.1 %	70-130		11/06/24	11/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2445057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		11/06/24	11/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445058
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/06/24	
<i>Surrogate: n-Nonane</i>						
	87.1 %	50-200		11/06/24	11/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445061
Chloride	25.1	20.0	1	11/06/24	11/06/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/8/2024 2:05:31PM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2445057-BLK1) Prepared: 11/06/24 Analyzed: 11/06/24

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	7.28		8.00		91.0	70-130			

LCS (2445057-BS1) Prepared: 11/06/24 Analyzed: 11/06/24

Benzene	4.32	0.0250	5.00		86.3	70-130			
Ethylbenzene	4.61	0.0250	5.00		92.2	70-130			
Toluene	4.57	0.0250	5.00		91.4	70-130			
o-Xylene	4.64	0.0250	5.00		92.8	70-130			
p,m-Xylene	9.38	0.0500	10.0		93.8	70-130			
Total Xylenes	14.0	0.0250	15.0		93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.7	70-130			

LCS Dup (2445057-BSD1) Prepared: 11/06/24 Analyzed: 11/06/24

Benzene	4.42	0.0250	5.00		88.4	70-130	2.38	20	
Ethylbenzene	4.78	0.0250	5.00		95.5	70-130	3.54	20	
Toluene	4.71	0.0250	5.00		94.2	70-130	3.06	20	
o-Xylene	4.79	0.0250	5.00		95.9	70-130	3.27	20	
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130	3.60	20	
Total Xylenes	14.5	0.0250	15.0		96.8	70-130	3.49	20	
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/8/2024 2:05:31PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445057-BLK1) Prepared: 11/06/24 Analyzed: 11/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

LCS (2445057-BS2) Prepared: 11/06/24 Analyzed: 11/06/24

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

LCS Dup (2445057-BSD2) Prepared: 11/06/24 Analyzed: 11/06/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.1	70-130	1.33	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/8/2024 2:05:31PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445058-BLK1)					Prepared: 11/06/24 Analyzed: 11/06/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

LCS (2445058-BS1)					Prepared: 11/06/24 Analyzed: 11/06/24				
Diesel Range Organics (C10-C28)	232	25.0	250		92.8	38-132			
Surrogate: n-Nonane	47.1		50.0		94.2	50-200			

LCS Dup (2445058-BSD1)					Prepared: 11/06/24 Analyzed: 11/06/24				
Diesel Range Organics (C10-C28)	245	25.0	250		97.8	38-132	5.28	20	
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/8/2024 2:05:31PM

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 (2445061-BLK1)					Prepared: 11/06/24 Analyzed: 11/06/24				
Chloride	ND	20.0							
LCS (2445061-BS1)					Prepared: 11/06/24 Analyzed: 11/06/24				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2445061-BSD1)					Prepared: 11/06/24 Analyzed: 11/06/24				
Chloride	250	20.0	250		100	90-110	1.01	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/08/24 14:05

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Devon				Company: Devon Energy				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX				
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr				E411044		01058.0007					X	X							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																			
Address: 3122 National Parks Hwy				Phone: (575)689-7597																			
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com																			
Phone: 575-988-0055				Miscellaneous: Jim Raley																			
Email: agiovengo@ensolum.com																							
Sample Information												Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA						
9:55	11/4/2024	S	1	FS96 @ 0.5'		1						X											
15:00	11/4/2024	S	1	FS50 @ 1.5'		2						X											
15:15	11/4/2024	S	1	FS51 @ 1.5'		3						X											
15:17	11/4/2024	S	1	FS56 @ 4'		4						X											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, igonzalez@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Higinio Gonzalez																							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																						
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



envirotech

Envirotech Analytical Laboratory

Printed: 11/6/2024 9:43:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	11/06/24 07:30	Work Order ID:	E411044
Phone:	(505) 382-1211	Date Logged In:	11/05/24 14:59	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	11/14/24 17:00 (6 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E411062

Job Number: 01058-0007

Received: 11/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/15/24

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: 11/15/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E411062
Date Received: 11/7/2024 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2024 7:30:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/15/24 07:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS34 @ 1.5'	E411062-01A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
FS37 @ 1.5'	E411062-02A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
FS45 @ 0.5'	E411062-03A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
FS65 @ 1.5'	E411062-04A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
FS70 @ 1.5'	E411062-05A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
FS71 @ 1.5'	E411062-06A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
FS85 @ 1.5'	E411062-07A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
FS87 @ 0.5'	E411062-08A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
FS88 @ 0.5'	E411062-09A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
FS95 @ 0.5'	E411062-10A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
FS97 @ 1.5'	E411062-11A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/15/2024 7:58:50AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS34 @ 1.5'

E411062-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID	87.8 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.5 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane	113 %	50-200		11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/15/2024 7:58:50AM
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FS37 @ 1.5'
E411062-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID	88.3 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane	111 %	50-200		11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/15/2024 7:58:50AM

FS45 @ 0.5'

E411062-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.1 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		11/07/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/15/2024 7:58:50AM
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FS65 @ 1.5'
E411062-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID	87.8 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane	116 %	50-200		11/07/24	11/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/15/2024 7:58:50AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS70 @ 1.5'
E411062-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.6 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/07/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/15/2024 7:58:50AM
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FS71 @ 1.5'
E411062-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID	89.2 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	173 %	70-130		11/07/24	11/08/24	S3
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane	109 %	50-200		11/07/24	11/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/15/2024 7:58:50AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS85 @ 1.5'
E411062-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID	87.7 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane	116 %	50-200		11/07/24	11/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/15/2024 7:58:50AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS87 @ 0.5'
E411062-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.5 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		11/07/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/15/2024 7:58:50AM
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FS88 @ 0.5'
E411062-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID	87.8 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane	105 %	50-200		11/07/24	11/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/15/2024 7:58:50AM
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FS95 @ 0.5'
E411062-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.4 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		11/07/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/15/2024 7:58:50AM
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FS97 @ 1.5'
E411062-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.6 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2445110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445103	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		11/07/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445136	
Chloride	ND	20.0	1	11/08/24	11/08/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/15/2024 7:58:50AM

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 (2445110-BLK1)

Prepared: 11/07/24 Analyzed: 11/08/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.69		8.00		83.6	70-130			

LCS (2445110-BS1)

Prepared: 11/07/24 Analyzed: 11/08/24

Benzene	5.42	0.0250	5.00		108	70-130			
Ethylbenzene	5.21	0.0250	5.00		104	70-130			
Toluene	5.33	0.0250	5.00		107	70-130			
o-Xylene	5.19	0.0250	5.00		104	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.9	70-130			

LCS Dup (2445110-BSD1)

Prepared: 11/07/24 Analyzed: 11/08/24

Benzene	5.74	0.0250	5.00		115	70-130	5.73	20	
Ethylbenzene	5.53	0.0250	5.00		111	70-130	5.86	20	
Toluene	5.65	0.0250	5.00		113	70-130	5.83	20	
o-Xylene	5.51	0.0250	5.00		110	70-130	5.94	20	
p,m-Xylene	11.2	0.0500	10.0		112	70-130	5.88	20	
Total Xylenes	16.7	0.0250	15.0		112	70-130	5.90	20	
Surrogate: 4-Bromochlorobenzene-PID	6.99		8.00		87.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/15/2024 7:58:50AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445110-BLK1) Prepared: 11/07/24 Analyzed: 11/08/24

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

LCS (2445110-BS2) Prepared: 11/07/24 Analyzed: 11/08/24

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

LCS Dup (2445110-BSD2) Prepared: 11/07/24 Analyzed: 11/08/24

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.4	70-130	0.648	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/15/2024 7:58:50AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445103-BLK1) Prepared: 11/07/24 Analyzed: 11/08/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.5		50.0		109	50-200			

LCS (2445103-BS1) Prepared: 11/07/24 Analyzed: 11/08/24

Diesel Range Organics (C10-C28)	276	25.0	250		110	38-132			
Surrogate: n-Nonane	55.6		50.0		111	50-200			

LCS Dup (2445103-BSD1) Prepared: 11/07/24 Analyzed: 11/08/24

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132	3.41	20	
Surrogate: n-Nonane	53.9		50.0		108	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/15/2024 7:58:50AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2445136-BLK1)					Prepared: 11/08/24 Analyzed: 11/08/24				
Chloride	ND	20.0							
LCS (2445136-BS1)					Prepared: 11/08/24 Analyzed: 11/08/24				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2445136-MS1)					Source: E411061-03		Prepared: 11/08/24 Analyzed: 11/08/24		
Chloride	679	20.0	250	404	110	80-120			
Matrix Spike Dup (2445136-MSD1)					Source: E411061-03		Prepared: 11/08/24 Analyzed: 11/08/24		
Chloride	672	20.0	250	404	108	80-120	1.03	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/15/24 07:58

- S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Devon				Company: Devon Energy		Lab WO#		Job Number				1D 2D 3D Std						
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr		E411062		01058-0007				X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220								NM CO UT TX						
Address: 3122 National Parks Hwy				Phone: (575)689-7597								X						
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dv.com														
Phone: 575-988-0055				Miscellaneous: Jim Raley														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Remarks			
1429	11/5/2024	S	1	FS34 @ 1.5'		1						X						
1423	11/5/2024	S	1	FS37 @ 1.5'		2						X						
1015	11/5/2024	S	1	FS45 @ 0.5'		3						X						
0912	11/5/2024	S	1	FS65 @ 1.5'		4						X						
0939	11/5/2024	S	1	FS70 @ 1.5'		5						X						
0919	11/5/2024	S	1	FS71 @ 1.5'		6						X						
1338	11/5/2024	S	1	FS85 @ 1.5'		7						X						
1030	11/5/2024	S	1	FS87 @ 0.5'		8						X						
1028	11/5/2024	S	1	FS88 @ 0.5'		9						X						
1026	11/5/2024	S	1	FS95 @ 0.5'		10						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dv.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Higinio Gonzalez																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time			Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Page 2 of 2



Envirotech Analytical Laboratory

Printed: 11/7/2024 10:46:20AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	11/07/24 07:30	Work Order ID:	E411062
Phone:	(505) 382-1211	Date Logged In:	11/06/24 14:42	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	11/15/24 17:00 (6 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E411095

Job Number: 01058-0007

Received: 11/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/24

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: 11/12/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E411095
Date Received: 11/9/2024 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2024 10:00:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/24 12:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS47 @ 0'	E411095-01A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/12/2024 12:21:41PM
---	---	------------------------------------

FS47 @ 0'
E411095-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Benzene	ND	0.0250	1	11/11/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/11/24	
Toluene	ND	0.0250	1	11/11/24	11/11/24	
o-Xylene	ND	0.0250	1	11/11/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID	104 %	70-130		11/11/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2446001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		11/11/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446004	
Diesel Range Organics (C10-C28)	327	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	216	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane	98.0 %	50-200		11/11/24	11/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2446034	
Chloride	1020	20.0	1	11/12/24	11/12/24	

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/2024 12:21:41PM

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 (2446001-BLK1) Prepared: 11/11/24 Analyzed: 11/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.7	70-130			

LCS (2446001-BS1) Prepared: 11/11/24 Analyzed: 11/11/24

Benzene	4.44	0.0250	5.00		88.8	70-130			
Ethylbenzene	4.30	0.0250	5.00		86.0	70-130			
Toluene	4.39	0.0250	5.00		87.7	70-130			
o-Xylene	4.29	0.0250	5.00		85.9	70-130			
p,m-Xylene	8.77	0.0500	10.0		87.7	70-130			
Total Xylenes	13.1	0.0250	15.0		87.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

LCS Dup (2446001-BSD1) Prepared: 11/11/24 Analyzed: 11/11/24

Benzene	5.30	0.0250	5.00		106	70-130	17.6	20	
Ethylbenzene	5.16	0.0250	5.00		103	70-130	18.2	20	
Toluene	5.25	0.0250	5.00		105	70-130	17.9	20	
o-Xylene	5.16	0.0250	5.00		103	70-130	18.2	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	18.1	20	
Total Xylenes	15.7	0.0250	15.0		104	70-130	18.1	20	
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/2024 12:21:41PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446001-BLK1) Prepared: 11/11/24 Analyzed: 11/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

LCS (2446001-BS2) Prepared: 11/11/24 Analyzed: 11/11/24

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS Dup (2446001-BSD2) Prepared: 11/11/24 Analyzed: 11/11/24

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0		93.3	70-130	1.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/2024 12:21:41PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446004-BLK1) Prepared: 11/11/24 Analyzed: 11/11/24

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

LCS (2446004-BS1) Prepared: 11/11/24 Analyzed: 11/11/24

Diesel Range Organics (C10-C28)	233	25.0	250		93.3	38-132			
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			

LCS Dup (2446004-BSD1) Prepared: 11/11/24 Analyzed: 11/11/24

Diesel Range Organics (C10-C28)	303	25.0	250		121	38-132	26.1	20	R3
Surrogate: n-Nonane	64.4		50.0		129	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/2024 12:21:41PM

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 (2446034-BLK1)					Prepared: 11/12/24 Analyzed: 11/12/24				
Chloride	ND	20.0							
LCS (2446034-BS1)					Prepared: 11/12/24 Analyzed: 11/12/24				
Chloride	260	20.0	250		104	90-110			
LCS Dup (2446034-BSD1)					Prepared: 11/12/24 Analyzed: 11/12/24				
Chloride	260	20.0	250		104	90-110	0.0365	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/24 12:21

- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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 1 of 1

Envirotech Analytical Laboratory

Printed: 11/11/2024 9:01:35AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	11/09/24 10:00	Work Order ID:	E411095
Phone:	(505) 382-1211	Date Logged In:	11/08/24 16:46	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	11/11/24 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Per client. If TPH > 2,500 or DRO+DRO>1,00 do not run other tests.

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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E411100

Job Number: 01058-0007

Received: 11/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

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: 11/19/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E411100
Date Received: 11/9/2024 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2024 10:00:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/19/24 10:15
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
FS07 @ 0'	E411100-01A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS16 @ 0'	E411100-02A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS23 @ 0'	E411100-03A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS24 @ 0'	E411100-04A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS26 @ 0'	E411100-05A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS27 @ 0'	E411100-06A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS48 @ 0'	E411100-07A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS52 @ 0'	E411100-08A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.
FS94 @ 1'	E411100-09A	Soil	11/07/24	11/09/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/19/2024 10:15:20AM
---	---	------------------------------------

FS07 @ 0'
E411100-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RKS		Batch: 2446013
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		101 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2446013
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		101 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2446038
Diesel Range Organics (C10-C28)	2830	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	1170	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		96.2 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: JM		Batch: 2446143
Chloride	2190	40.0	2	11/15/24	11/15/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/19/2024 10:15:20AM

FS16 @ 0'

E411100-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		104 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		104 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446038
Diesel Range Organics (C10-C28)	76.3	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		96.9 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2446143
Chloride	2180	40.0	2	11/15/24	11/15/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/19/2024 10:15:20AM
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FS23 @ 0'
E411100-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		105 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		105 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446038
Diesel Range Organics (C10-C28)	657	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	525	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		97.4 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2446143
Chloride	2130	40.0	2	11/15/24	11/15/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/19/2024 10:15:20AM

FS24 @ 0'

E411100-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		105 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		105 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446038
Diesel Range Organics (C10-C28)	194	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	240	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		99.2 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2446143
Chloride	1140	20.0	1	11/15/24	11/15/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/19/2024 10:15:20AM

FS26 @ 0'

E411100-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Benzene	ND	0.125	5	11/11/24	11/14/24	
Ethylbenzene	ND	0.125	5	11/11/24	11/14/24	
Toluene	ND	0.125	5	11/11/24	11/14/24	
o-Xylene	ND	0.125	5	11/11/24	11/14/24	
p,m-Xylene	ND	0.250	5	11/11/24	11/14/24	
Total Xylenes	ND	0.125	5	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		108 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		102 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Gasoline Range Organics (C6-C10)	ND	100	5	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		108 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		102 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446038
Diesel Range Organics (C10-C28)	3460	50.0	2	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	2190	100	2	11/12/24	11/13/24	
Surrogate: n-Nonane		91.9 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2446143
Chloride	308	20.0	1	11/15/24	11/15/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/19/2024 10:15:20AM

FS27 @ 0'

E411100-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		108 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		104 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		108 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		104 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446038
Diesel Range Organics (C10-C28)	181	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	168	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		98.6 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2446143
Chloride	168	20.0	1	11/15/24	11/15/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/19/2024 10:15:20AM

FS48 @ 0'

E411100-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		104 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		104 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446038
Diesel Range Organics (C10-C28)	39.1	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		97.1 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2446143
Chloride	2760	40.0	2	11/15/24	11/15/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/19/2024 10:15:20AM
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FS52 @ 0'
E411100-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		107 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		107 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446038
Diesel Range Organics (C10-C28)	85.8	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	72.2	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		102 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2446143
Chloride	158	20.0	1	11/15/24	11/15/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/19/2024 10:15:20AM

FS94 @ 1'

E411100-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		104 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2446013
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	11/11/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	11/11/24	11/14/24	
Surrogate: Toluene-d8		104 %	70-130	11/11/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446038
Diesel Range Organics (C10-C28)	26.0	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		99.9 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2446143
Chloride	ND	20.0	1	11/15/24	11/15/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/19/2024 10:15:20AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446013-BLK1) Prepared: 11/11/24 Analyzed: 11/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2446013-BS1) Prepared: 11/11/24 Analyzed: 11/14/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.1	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.55	0.0250	2.50		102	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.60	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS Dup (2446013-BSD1) Prepared: 11/11/24 Analyzed: 11/14/24

Benzene	2.49	0.0250	2.50		99.4	70-130	0.841	23	
Ethylbenzene	2.48	0.0250	2.50		99.4	70-130	0.262	27	
Toluene	2.52	0.0250	2.50		101	70-130	0.198	24	
o-Xylene	2.57	0.0250	2.50		103	70-130	0.938	27	
p,m-Xylene	5.10	0.0500	5.00		102	70-130	0.758	27	
Total Xylenes	7.67	0.0250	7.50		102	70-130	0.819	27	
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/19/2024 10:15:20AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2446013-BLK1) Prepared: 11/11/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2446013-BS2) Prepared: 11/11/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.1	70-130			
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

LCS Dup (2446013-BSD2) Prepared: 11/11/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.3	70-130	3.63	20	
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/19/2024 10:15:20AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446038-BLK1)	Prepared: 11/12/24 Analyzed: 11/13/24								
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS (2446038-BS1)	Prepared: 11/12/24 Analyzed: 11/13/24								
Diesel Range Organics (C10-C28)	224	25.0	250		89.6	38-132			
Surrogate: n-Nonane	47.5		50.0		95.0	50-200			

Matrix Spike (2446038-MS1)				Source: E411108-05	Prepared: 11/12/24 Analyzed: 11/13/24				
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.7	38-132			
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			

Matrix Spike Dup (2446038-MSD1)				Source: E411108-05	Prepared: 11/12/24 Analyzed: 11/13/24				
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.5	38-132	1.98	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/19/2024 10:15:20AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2446143-BLK1)					Prepared: 11/15/24 Analyzed: 11/15/24				
Chloride	ND	20.0							
LCS (2446143-BS1)					Prepared: 11/15/24 Analyzed: 11/15/24				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2446143-BSD1)					Prepared: 11/15/24 Analyzed: 11/15/24				
Chloride	251	20.0	250		101	90-110	0.0409	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:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/19/24 10:15

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



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon Energy		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr		E411106	01058.0007				X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
															Compliance	Y	or N
															PWSID #		
															Remarks		
1206	11/7/2024	S	1	FS07 @ 0'		1						X					
1115	11/7/2024	S	1	FS16 @ 0'		2						X					
1204	11/7/2024	S	1	FS23 @ 0'		3						X					
1208	11/7/2024	S	1	FS24 @ 0'		4						X					
1202	11/7/2024	S	1	FS26 @ 0'		5						X					
1122	11/7/2024	S	1	FS27 @ 0'		6						X					
1135	11/7/2024	S	1	FS48 @ 0'		7						X					
1137	11/7/2024	S	1	FS52 @ 0'		8						X					
0910	11/7/2024	S	1	FS94 @ 1'		9						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																	
RUSH TPH ONLY																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Higinio Gonzalez																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 11/11/2024 10:23:51AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	11/09/24 10:00	Work Order ID:	E411100
Phone:	(505) 382-1211	Date Logged In:	11/09/24 11:37	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	11/15/24 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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E411101

Job Number: 01058-0007

Received: 11/9/2024

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
11/12/24

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: 11/12/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E411101
Date Received: 11/9/2024 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2024 10:00:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/12/24 19:44
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS36 @ 2.5'	E411101-01A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS54 @ 3'	E411101-02A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS55 @ 4'	E411101-03A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS59 @ 2.5'	E411101-04A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS60 @ 2.5'	E411101-05A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS62 @ 2.5'	E411101-06A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS64 @ 2.5'	E411101-07A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS66 @ 2.5'	E411101-08A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS67 @ 1.5'	E411101-09A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS68 @ 1.5'	E411101-10A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS69 @ 1.5'	E411101-11A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
FS109 @ 0.5'	E411101-12A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/12/2024 7:44:50PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS36 @ 2.5'
E411101-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID	98.0 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
Surrogate: n-Nonane	99.5 %	50-200		11/12/24	11/12/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/12/2024 7:44:50PM
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FS54 @ 3'
E411101-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		11/12/24	11/12/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/12/2024 7:44:50PM
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FS55 @ 4'
E411101-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/12/24	11/12/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/12/2024 7:44:50PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS59 @ 2.5'
E411101-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/12/24	11/12/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/12/2024 7:44:50PM
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FS60 @ 2.5'
E411101-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID	87.2 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.742 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
Surrogate: n-Nonane	105 %	50-200		11/12/24	11/12/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/12/2024 7:44:50PM
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FS62 @ 2.5'
E411101-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID	86.1 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.2 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
Surrogate: n-Nonane	111 %	50-200		11/12/24	11/12/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/12/2024 7:44:50PM
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FS64 @ 2.5'
E411101-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID	87.8 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
Surrogate: n-Nonane	93.1 %	50-200		11/12/24	11/12/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/12/2024 7:44:50PM
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FS66 @ 2.5'
E411101-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID	88.1 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
Surrogate: n-Nonane	58.9 %	50-200		11/12/24	11/12/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/12/2024 7:44:50PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS67 @ 1.5'
E411101-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: BA		Batch: 2446014
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		88.5 %	70-130	11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2446014
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2446043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
Surrogate: n-Nonane		108 %	50-200	11/12/24	11/12/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/12/2024 7:44:50PM

FS68 @ 1.5'**E411101-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.2 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		11/12/24	11/12/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/12/2024 7:44:50PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS69 @ 1.5'
E411101-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID	88.2 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	27.4	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
Surrogate: n-Nonane	109 %	50-200		11/12/24	11/12/24	

Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/12/2024 7:44:50PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS109 @ 0.5'
E411101-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.8 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2446014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		11/11/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2446043	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/12/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		11/12/24	11/12/24	



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/12/24 19:44

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



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon Energy		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr		E411101		010580007					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
0913	11/6/2024	S	1	FS36 @ 2.5'		1						X					
1000	11/6/2024	S	1	FS54 @ 3'		2						X					
0958	11/6/2024	S	1	FS55 @ 4'		3						X					
1435	11/6/2024	S	1	FSS9 @ 2.5'		4						X					
1445	11/6/2024	S	1	FS60 @ 2.5'		5						X					
0909	11/6/2024	S	1	FS62 @ 2.5'		6						X					
0911	11/6/2024	S	1	FS64 @ 2.5'		7						X					
1437	11/6/2024	S	1	FS66 @ 2.5'		8						X					
1439	11/6/2024	S	1	FS67 @ 1.5'		9						X					
1308	11/6/2024	S	1	FS68 @ 1.5'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, igonzalez@ensolum.com																	
RUSH TPH ONLY																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Higinio Gonzalez																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Chain of Custody

[illegible]

Envirotech Analytical Laboratory

Printed: 11/11/2024 10:25:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	11/09/24 10:00	Work Order ID:	E411101
Phone:	(505) 382-1211	Date Logged In:	11/09/24 11:46	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	11/15/24 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

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: CouierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 Fed 4H

Work Order: E411108

Job Number: 01058-0007

Received: 11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/20/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/20/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Spica 25 Fed 4H
Workorder: E411108
Date Received: 11/12/2024 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 8:15:00AM, under the Project Name: Spica 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 4H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/20/24 12:29
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
BH08 @ 0'	E411108-01A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH08 @ 2'	E411108-02A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH08 @ 3'	E411108-03A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
FS01 @ 5'	E411108-04A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
FS02 @ 4'	E411108-05A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
FS03 @ 4'	E411108-06A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
FS04 @ 4'	E411108-07A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
SW08 @ 0-4'	E411108-08A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
SW09 @ 0-5'	E411108-09A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
SW10 @ 0-5'	E411108-10A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
SW11 @ 0-4'	E411108-11A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/20/2024 12:29:21PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

BH08 @ 0'
E411108-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	204	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	141	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane	104 %	50-200		11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	138	20.0	1	11/18/24	11/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/20/2024 12:29:21PM
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BH08 @ 2'
E411108-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID	89.7 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane	106 %	50-200		11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	164	20.0	1	11/18/24	11/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/20/2024 12:29:21PM
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BH08 @ 3'
E411108-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID	89.2 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane	102 %	50-200		11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	365	20.0	1	11/18/24	11/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/20/2024 12:29:21PM
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FS01 @ 5'
E411108-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID	89.3 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane	103 %	50-200		11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	23.3	20.0	1	11/18/24	11/19/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/20/2024 12:29:21PM

FS02 @ 4'

E411108-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/12/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	26.3	20.0	1	11/18/24	11/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/20/2024 12:29:21PM
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FS03 @ 4'
E411108-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane	103 %	50-200		11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	63.5	20.0	1	11/18/24	11/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/20/2024 12:29:21PM
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FS04 @ 4'

E411108-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID	89.9 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane	97.2 %	50-200		11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	ND	20.0	1	11/18/24	11/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/20/2024 12:29:21PM
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SW08 @ 0-4'
E411108-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		11/12/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	ND	20.0	1	11/18/24	11/19/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported: 11/20/2024 12:29:21PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

SW09 @ 0-5'
E411108-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane	103 %	50-200		11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	ND	20.0	1	11/18/24	11/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 Fed 4H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 11/20/2024 12:29:21PM
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SW10 @ 0-5'
E411108-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID	89.8 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane	94.3 %	50-200		11/12/24	11/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	ND	20.0	1	11/18/24	11/19/24	



Sample Data

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

Project Name: Spica 25 Fed 4H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
11/20/2024 12:29:21PM

SW11 @ 0-4'

E411108-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2446040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		11/12/24	11/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2446038	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
<i>Surrogate: n-Nonane</i>						
	94.5 %	50-200		11/12/24	11/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2447014	
Chloride	ND	20.0	1	11/18/24	11/19/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/20/2024 12:29:21PM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2446040-BLK1)Prepared: 11/12/24 Analyzed: 11/17/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.81		8.00		85.1	70-130			

LCS (2446040-BS1)Prepared: 11/12/24 Analyzed: 11/17/24

Benzene	4.81	0.0250	5.00		96.1	70-130			
Ethylbenzene	4.62	0.0250	5.00		92.4	70-130			
Toluene	4.73	0.0250	5.00		94.6	70-130			
o-Xylene	4.58	0.0250	5.00		91.6	70-130			
p,m-Xylene	9.41	0.0500	10.0		94.1	70-130			
Total Xylenes	14.0	0.0250	15.0		93.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.90		8.00		86.3	70-130			

LCS Dup (2446040-BSD1)Prepared: 11/12/24 Analyzed: 11/17/24

Benzene	4.96	0.0250	5.00		99.2	70-130	3.17	20	
Ethylbenzene	4.78	0.0250	5.00		95.6	70-130	3.36	20	
Toluene	4.88	0.0250	5.00		97.6	70-130	3.16	20	
o-Xylene	4.74	0.0250	5.00		94.8	70-130	3.37	20	
p,m-Xylene	9.71	0.0500	10.0		97.1	70-130	3.20	20	
Total Xylenes	14.5	0.0250	15.0		96.3	70-130	3.26	20	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/20/2024 12:29:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446040-BLK1) Prepared: 11/12/24 Analyzed: 11/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

LCS (2446040-BS2) Prepared: 11/12/24 Analyzed: 11/17/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS Dup (2446040-BSD2) Prepared: 11/12/24 Analyzed: 11/17/24

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0		86.9	70-130	11.5	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/20/2024 12:29:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446038-BLK1)	Prepared: 11/12/24 Analyzed: 11/13/24								
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS (2446038-BS1)	Prepared: 11/12/24 Analyzed: 11/13/24								
Diesel Range Organics (C10-C28)	224	25.0	250		89.6	38-132			
Surrogate: n-Nonane	47.5		50.0		95.0	50-200			

Matrix Spike (2446038-MS1)				Source: E411108-05	Prepared: 11/12/24 Analyzed: 11/13/24				
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.7	38-132			
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			

Matrix Spike Dup (2446038-MSD1)				Source: E411108-05	Prepared: 11/12/24 Analyzed: 11/13/24				
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.5	38-132	1.98	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/20/2024 12:29:21PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447014-BLK1)					Prepared: 11/18/24 Analyzed: 11/19/24				
Chloride	ND	20.0							
LCS (2447014-BS1)					Prepared: 11/18/24 Analyzed: 11/19/24				
Chloride	258	20.0	250		103	90-110			
LCS Dup (2447014-BSD1)					Prepared: 11/18/24 Analyzed: 11/19/24				
Chloride	257	20.0	250		103	90-110	0.239	20	

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Spica 25 Fed 4H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/20/24 12:29

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



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon Energy		Lab WO#		Job Number				NM CO UT TX					
Project: Spica 25 Fed 4H				Address: 5315 Buena Vista Dr		E411108		01058-0007				X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 TX	RCRA 8 Metals	SDWA	CWA	RCRA
10:07	11/8/2024	S	1	BH08 @ 0'		1						X					
10:10	11/8/2024	S	1	BH08 @ 2'		2						X					
10:11	11/8/2024	S	1	BH08 @ 3'		3						X					
14:23	11/8/2024	S	1	FS01 @ 5'		4						X					
14:25	11/8/2024	S	1	FS02 @ 4'		5						X					
14:28	11/8/2024	S	1	FS03 @ 4'		6						X					
14:30	11/8/2024	S	1	FS04 @ 4'		7						X					
14:32	11/8/2024	S	1	SW08 @ 0-4'		8						X					
14:34	11/8/2024	S	1	SW09 @ 0-5'		9						X					
14:34	11/8/2024	S	1	SW10 @ 0-5'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, igonzalez@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Higinio Gonzalez, Chad Hamilton																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



[illegible]

Envirotech Analytical Laboratory

Printed: 11/12/2024 10:27:51AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	11/12/24 08:15	Work Order ID:	E411108
Phone:	(505) 382-1211	Date Logged In:	11/11/24 14:44	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	11/20/24 17:00 (6 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

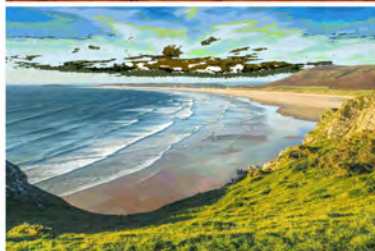
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spica 25 federal #004H

Work Order: E412113

Job Number: 01058-0007

Received: 12/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/16/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/16/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Spica 25 federal #004H
Workorder: E412113
Date Received: 12/16/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/16/2024 8:00:00AM, under the Project Name: Spica 25 federal #004H.

The analytical test results summarized in this report with the Project Name: Spica 25 federal #004H 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/16/24 14:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS72 - 1'	E412113-01A	Soil	12/12/24	12/16/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Spica 25 federal #004H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/16/2024 2:23:55PM
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FS72 - 1'

E412113-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2451005	
Benzene	ND	0.0250	1	12/16/24	12/16/24	
Ethylbenzene	ND	0.0250	1	12/16/24	12/16/24	
Toluene	ND	0.0250	1	12/16/24	12/16/24	
o-Xylene	ND	0.0250	1	12/16/24	12/16/24	
p,m-Xylene	ND	0.0500	1	12/16/24	12/16/24	
Total Xylenes	ND	0.0250	1	12/16/24	12/16/24	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		12/16/24	12/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2451005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/16/24	12/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		12/16/24	12/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2451001	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/16/24	12/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/16/24	12/16/24	
Surrogate: n-Nonane	120 %	50-200		12/16/24	12/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2451002	
Chloride	ND	20.0	1	12/16/24	12/16/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/16/2024 2:23:55PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451005-BLK1)

Prepared: 12/16/24 Analyzed: 12/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130			

LCS (2451005-BS1)

Prepared: 12/16/24 Analyzed: 12/16/24

Benzene	5.39	0.0250	5.00		108	70-130			
Ethylbenzene	5.21	0.0250	5.00		104	70-130			
Toluene	5.32	0.0250	5.00		106	70-130			
o-Xylene	5.19	0.0250	5.00		104	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.7	70-130			

LCS Dup (2451005-BSD1)

Prepared: 12/16/24 Analyzed: 12/16/24

Benzene	5.05	0.0250	5.00		101	70-130	6.53	20	
Ethylbenzene	4.88	0.0250	5.00		97.5	70-130	6.58	20	
Toluene	4.98	0.0250	5.00		99.6	70-130	6.54	20	
o-Xylene	4.87	0.0250	5.00		97.5	70-130	6.25	20	
p,m-Xylene	9.94	0.0500	10.0		99.4	70-130	6.27	20	
Total Xylenes	14.8	0.0250	15.0		98.8	70-130	6.26	20	
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/16/2024 2:23:55PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451005-BLK1) Prepared: 12/16/24 Analyzed: 12/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

LCS (2451005-BS2) Prepared: 12/16/24 Analyzed: 12/16/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			

LCS Dup (2451005-BSD2) Prepared: 12/16/24 Analyzed: 12/16/24

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0		99.2	70-130	14.1	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.2	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/16/2024 2:23:55PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451001-BLK1) Prepared: 12/16/24 Analyzed: 12/16/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.6		50.0		115	50-200			

LCS (2451001-BS1) Prepared: 12/16/24 Analyzed: 12/16/24

Diesel Range Organics (C10-C28)	291	25.0	250		116	38-132			
Surrogate: n-Nonane	60.5		50.0		121	50-200			

LCS Dup (2451001-BSD1) Prepared: 12/16/24 Analyzed: 12/16/24

Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132	1.49	20	
Surrogate: n-Nonane	59.0		50.0		118	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spica 25 federal #004H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/16/2024 2:23:55PM

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 (2451002-BLK1)					Prepared: 12/16/24 Analyzed: 12/16/24				
Chloride	ND	20.0							
LCS (2451002-BS1)					Prepared: 12/16/24 Analyzed: 12/16/24				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2451002-BSD1)					Prepared: 12/16/24 Analyzed: 12/16/24				
Chloride	259	20.0	250		103	90-110	0.601	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:	Spica 25 federal #004H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/16/24 14:23

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



Client Information				Invoice Information				Lab Use Only				TAT				State												
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX									
Project: Spica 25 Federal #004H				Address: 5315 Buena Vista Dr				E412113		00580007		X				X												
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220				Analysis and Method												EPA Program								
Address: 3122 National Parks Hwy				Phone: (575)689-7597																SDWA			CWA			RCRA		
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com																Compliance			Y			or		
Phone: 575-988-0055				Miscellaneous: Jim Raley																PWSID #								
Email: agiovengo@ensolum.com																				Remarks								
Sample Information																												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals													
10:41	12/12/2024	S	1	FS72 - 1'			1						X															
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																												
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																												
Sampled by: Bowan Simmons																												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only 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. Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																												
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																												



envirotech

Envirotech Analytical Laboratory

Printed: 12/16/2024 8:49:51AM

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:	WPX Energy - Carlsbad	Date Received:	12/16/24 08:00	Work Order ID:	E412113
Phone:	(539) 573-4018	Date Logged In:	12/13/24 15:36	Logged In By:	Noe Soto
Email:	ashley.giovengo@wesominc.com	Due Date:	12/16/24 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: 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.

Chain of Custody

[illegible]

envirotech



APPENDIX E

NMOCD Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: [Cole Burton](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: Extension Request - Spica 25 Fed 4H - Incident Number nAPP2409940657
Date: Tuesday, July 9, 2024 8:13:12 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2409940657**

Ashley,

Your request for a 90 day extension to **October 7th, 2024** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, July 8, 2024 3:50 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Spica 25 Fed 4H - Incident Number nAPP2409940657

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Monday, July 8, 2024 11:58 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Extension Request - Spica 25 Fed 4H - Incident Number nAPP2409940657

CAUTION: This email originated outside of our organization. Exercise caution prior to

clicking on links or opening attachments.

All,

Devon Production Company (Devon) is requesting an extension for the current deadline of July 07, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B. (1) NMAC at the Spica 25 Fed 4H (Incident Number nAPP2409940657). The release occurred on April 07, 2024, and lateral and vertical delineation sampling to the strictest criteria has been completed at the Site. We are currently waiting on approval from the Bureau of Land Management (BLM) for a Sundry Form (Form 3160-5) in order to address the impacted area off-pad (Approximately 43,000 square feet was impacted). Devon intends to complete remediation in accordance with the reclamation standard and to submit a remediation work plan or closure report, immediately upon receiving the laboratory analytical results from confirmation soil sampling activities. Devon respectfully requests a 90-day extension until October 05, 2024. Please let me know if you have any further questions regarding this site.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

"Your authenticity is your superpower." – Unknown

From: [Hamlet, Robert, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Raley, Jim](#); [Ashley Giovengo](#); [Cole Burton](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)
Subject: (Variance Request Approval) - Confirmation Sampling Variance Request - Devon - Spica 25 Federal #004H - Incident Number nAPP2409940657
Date: Friday, October 18, 2024 3:31:43 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2409940657

Chad,

A variance is approved for 400 ft2 floor confirmation samples. Sidewall confirmation samples should be collected every 200 ft2. Please include this e-mail correspondence in the Remediation Closure Report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, October 18, 2024 3:03 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Confirmation Sampling Variance Request - Devon - Spica 25 Federal #004H - Incident Number nAPP2409940657

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Friday, October 18, 2024 2:58 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Raley, Jim <Jim.Raley@dvn.com>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Cole Burton <cburton@ensolum.com>

Subject: [EXTERNAL] Confirmation Sampling Variance Request - Devon - Spica 25 Federal #004H - Incident Number nAPP2409940657

You don't often get email from chamilton@ensolum.com. [Learn why this is important](#)

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

Hello,

Devon Energy Production Company, LP (Devon) is requesting a confirmation sampling variance at the Spica 25 Federal #004H (Site) (Incident Number nAPP2409940657). On April 7, 2024, a ULPS pop off valve failure in a production tank at the Spica 25 Federal #004H resulted in the release of approximately 69 barrels (bbls) of crude oil; 63 bbls were recovered from the release area. The release impacted an area approximately 60,204 square feet (sq. ft.) in size on Federal Land managed by the Bureau of Land Management (BLM). Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) on April 9, 2024, via web portal and a Sundry was submitted via AFMSS portal to BLM on July 8, 2024. A desktop review for potential site receptors has been completed for this Site and according to the New Mexico Office of the State Engineer (NMOSE), the closest depth to groundwater measurement is NMOSE well CP 01939 POD1 with a reported depth to groundwater measurement greater than 55 feet below ground surface (bgs); the well is within a half-mile radius of the Site and the date of the last recorded measurement was on April 6, 2023. The site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine (see Figure 1). The closest significant watercourse is a freshwater pond located approximately 1.56 miles north of the Site. The Site is not underlain by unstable geology (low potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Based on the results of the desktop review, the following Site Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX 1,000 mg/kg GRO/DRO, 2,500 mg/kg GRO/DRO/ORO and 10,000 mg/kg chloride.

Lateral and vertical delineation sampling has been completed in accordance with the strictest Closure Criteria per NMOCD Table I. Devon would like to request a confirmation sampling variance for excavation floor samples collected every 400 sq. ft. from the floor of the excavation and every 200 sq. ft. from the sidewalls of the excavation where applicable. Devon is scheduled to begin the excavation/reclamation of the off-pad release area on October 21, 2024, and intends to collect confirmation samples following the removal of waste-containing soil from the excavation extent. Devon will submit a remediation work plan or deferral report required in 19.15.29.12.B.(1) NMAC following excavation and confirmation sampling activities. Due to the size of the impacted area, and a reported depth to groundwater greater than 55 ft bgs, Devon believes this *variance request* will provide equal or better protection of public health, the environment. Devon respectfully requests approval for this *variance request* associated with Incident Number (nAPP2409940657).

Thanks,

|



Chad Hamilton

Staff Geologist

940-923-0072

Ensolum, LLC

in f 

District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS

Action 393892

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393892
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source

Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/22/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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CONDITIONS

Action 393892

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393892
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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QUESTIONS

Action 393895

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393895
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source

Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/24/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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Santa Fe, NM 87505

CONDITIONS

Action 393895

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393895
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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QUESTIONS

Action 393896

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393896
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/25/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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CONDITIONS

Action 393896

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393896
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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QUESTIONS

Action 393898

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393898
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/28/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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CONDITIONS

Action 393898

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393898
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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Santa Fe, NM 87505

QUESTIONS

Action 393899

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393899
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/29/2024
Time sampling will commence	09:00 AM
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Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 393899

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393899
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

District I

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

District II

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

District III

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

QUESTIONS

Action 393901

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393901
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/30/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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

CONDITIONS

Action 393901

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393901
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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

QUESTIONS

Action 393903

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393903
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/23/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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State of New Mexico
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Santa Fe, NM 87505

CONDITIONS

Action 393903

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393903
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 393894

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393894
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source

Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/23/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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

CONDITIONS

Action 393894

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 393894
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 396227

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396227
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/30/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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

CONDITIONS

Action 396227

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396227
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/28/2024

District I

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

QUESTIONS

Action 397491

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 397491
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source

Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/31/2024
Time sampling will commence	09:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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

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

CONDITIONS

Action 397491

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 397491
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/30/2024

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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 397499

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 397499
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/01/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

District I
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State of New Mexico
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Santa Fe, NM 87505

CONDITIONS

Action 397499

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 397499
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/30/2024

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District III

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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

Action 397500

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 397500
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source

Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/04/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

District I
1625 N. French Dr., Hobbs, NM 88240
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1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 397500

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 397500
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/30/2024

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 397502

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 397502
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/05/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940)-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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State of New Mexico
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Santa Fe, NM 87505

CONDITIONS

Action 397502

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 397502
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/30/2024

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

QUESTIONS

Action 400230

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400230
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/06/2024
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ 940-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

District I
1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 400230

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400230
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/6/2024

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1625 N. French Dr., Hobbs, NM 88240
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QUESTIONS

Action 400231

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400231
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/07/2024
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ 940-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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CONDITIONS

Action 400231

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400231
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	11/6/2024

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QUESTIONS

Action 400232

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400232
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	60,204
What is the estimated number of samples that will be gathered	170
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/08/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please Contact Chad Hamilton @ 940-923-0072
Please provide any information necessary for navigation to sampling site	32.638048, -103.832124

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CONDITIONS

Action 400232

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 400232
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	11/6/2024

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QUESTIONS

Action 402619

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 402619
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	3,108
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	11/15/2024
Time liner inspection will commence	09:30 AM
Please provide any information necessary for observers to liner inspection	Tank Containment
Please provide any information necessary for navigation to liner inspection site	32.638048, -103.832124

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CONDITIONS

Action 402619

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 402619
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	11/12/2024

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Oil Conservation Division
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QUESTIONS

Action 404434

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404434
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	3,108
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	11/21/2024
Time liner inspection will commence	09:30 AM
Please provide any information necessary for observers to liner inspection	Tank Containment
Please provide any information necessary for navigation to liner inspection site	32.638048, -103.832124

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CONDITIONS

Action 404434

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404434
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
jralej	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.	11/18/2024

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QUESTIONS

Action 413993

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413993
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409940657
Incident Name	NAPP2409940657 SPICA 25 FEDERAL #004H @ 30-015-40105
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-015-40105] SPICA 25 FEDERAL #004H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SPICA 25 FEDERAL #004H
Date Release Discovered	04/07/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Production Tank Crude Oil Released: 69 BBL Recovered: 63 BBL Lost: 6 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)	The leak was caused by a ULPS pop off valve failure in a production tank. The wells were shut in to stop the leak. 69.3 bbls spilled in and outside of containment. 63 bbls recovered.

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QUESTIONS, Page 2

Action 413993

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413993
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

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

Initial Response

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

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

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

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

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

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Phone: (505) 476-3441

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QUESTIONS, Page 3

Action 413993

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413993
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>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.</i>	
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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<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>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3020
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	40720
GRO+DRO (EPA SW-846 Method 8015M)	8810
BTEX (EPA SW-846 Method 8021B or 8260B)	574
Benzene (EPA SW-846 Method 8021B or 8260B)	8.4
<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>	
On what estimated date will the remediation commence	10/21/2024
On what date will (or did) the final sampling or liner inspection occur	12/12/2024
On what date will (or was) the remediation complete(d)	12/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	40969
What is the estimated volume (in cubic yards) that will be reclaimed	2206
What is the estimated surface area (in square feet) that will be remediated	19487
What is the estimated volume (in cubic yards) that will be remediated	1252
<i>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.</i>	
<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 4

Action 413993

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413993
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/19/2024
<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 413993

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413993
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Production tanks, VRU, tank containment and pipeline supports
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	3842
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	399
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-40105 SPICA 25 FEDERAL #004H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 12/19/2024

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413993
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	410466
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/12/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

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

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 413993

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413993
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Devon's deferral requests final remediation for (Incident Number NAPP2409940657) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and Devon do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 4 that is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	1/14/2025