SPUD MUFFIN 31-30 334H

3/6/2024

OCD Incident nAPP2406734751

<u>S</u> pil	Spill Volume(Bbls) Calculator							
Inj	Inputs in blue, Outputs in red							
Contaminated Soil measurement								
Length(Ft)	Width(Ft)	Depth(Ft)						
<u>42.5</u>	30.000	<u>0.025</u>						
ubic Feet of S	oil Impacte	<u>31.875</u>						
Impa	rted	<u>5.68</u>						
Soil 1	уре	Clay/Sand						
Barrels of Oi 100% Sat	_	0.85						
Saturation	Damp n	o fluid when squeezed						
Estimated E		0.09						
	Free Standi	ing Fluid Only						
Length(Ft)	Width(Ft)	Depth(Ft)						
<u>42.5</u>	<u>30.000</u>	0.025						
Standin	g fluid	<u>5.669</u>						
Total fluid	s spilled	<u>6.521</u>						



September 16, 2024

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

Re: Deferral Request

Spud Muffin 31-30 334H

Incident Number nAPP2406734751

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 excavation and soil sampling activities performed at the Spud Muffin 31-30 334H (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil following a release of crude oil onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, Devon is submitting this *Deferral Request*, describing Site assessment and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2406734751 until the Site is reconstructed and/or the well pad is abandoned and reclaimed.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 31, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.2555182°, -104.0161698°) and is associated with oil and gas exploration and production operations on Private Land.

On March 6, 2024, a pinhole leak located near the choke on a 3-inch line resulted in the release of approximately 7 barrels (bbls) of crude oil onto the well pad, approximately 5 bbls of crude oil were recovered. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on March 6, 2024, and submitted a Release Notification Form C-141 (Form C-141) on March 8, 2024. The release was assigned Incident Number nAPP2406734751.

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). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-03615 POD1 with a depth to water measurement of 36 feet below ground surface (bgs). The well is located 0.61 miles southwest of the Site and the most recent documented water level measurement was collected on May 10, 2013. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

Devon Energy Production Company, LP Spud Muffin 31 30 #334H Deferral Request

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 0.43 miles southwest 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 (medium potential karst designation area). Potential 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), (TPH)-oil range organics (ORO), and TPH-diesel range organics (DRO): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

On March 14, 2024, Ensolum personnel were onsite to begin to evaluate the release extent and to conduct delineation soil sampling activities. Delineation soil samples (SS01 through SS04) were collected at ground surface to verify the lateral extent of the release area. Lateral delineation soil samples (SS01 through SS04) were field screened for chloride utilizing Mohr method titration and for TPH utilizing a PetroFLAG® Soil analyzer system. Ensolum personnel returned to the Site on March 27, 2024, to advance two boreholes (BH01 and BH02) within the release extent to a depth of 2 feet and 0.5 feet bgs, respectively. Soil from the boreholes were field screened for chloride in the same manner previously described. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. Delineation soil sample locations are depicted on Figure 2 and a photographic log is included in Appendix C.

The delineation 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 Laboratory Analysis (Envirotech) in Farmington, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-ORO following EPA Method 8015M/D; and chloride following EPA Method 300.0.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

From July 31, 2024, through August 16, 2024, Ensolum personnel were onsite to oversee the excavation of impacted soil within the accessible spill area. Excavation of the spill area was completed with a backhoe, skid steer, and hand tools to depths ranging from 1-foot bgs to 3 feet bgs. Following removal of impacted soil, Ensolum personnel collected 71, 5-point composite soil samples representing up to 200 square feet from the floor of the excavation and 5, 5-point confirmation sidewall soil samples from the walls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.



Devon Energy Production Company, LP Spud Muffin 31 30 #334H Deferral Request

Ensolum personnel completed two additional boreholes, BH03 and BH04, via hand auger within the area of requested deferral. Borehole BH03 was advanced to a depth of 4 feet bgs and borehole BH04 was advanced to a depth of 6 feet bgs.

The final excavation extent measured approximately 13,909 square feet. A total of approximately 742 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS04), collected at ground surface, were all in compliance with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results for boreholes BH01 and BH02 were in compliance with the Site Closure Criteria at 2 feet bgs and 0.5 feet bgs respectively.

Laboratory analytical results for confirmation soil samples (FS01 through FS71) were all in compliance with the Site Closure Criteria, with the exception of FS15, FS33, FS34, FS49, FS50, FS52, collected at a depth of 1-foot bgs and confirmation soil samples FS58, and FS51, FS55, FS57, FS61 though FS63, and FS69 through FS71, which are located within the area of requested deferral. Laboratory analytical results for confirmation soil samples FS15, FS33, FS34, FS49, FS50, FS52, collected at depths ranging from 1.5 feet to 2 feet bgs, were in compliance with the Site Closure Criteria following additional excavation.

Laboratory analytical results for all confirmation sidewall soil samples collected at depths ranging from the ground surface to 4 feet bgs were all in compliance with the Site Closure Criteria. The laboratory analytical results are summarized in Tables 1 through 3 and the complete laboratory analytical reports are included in Appendix D. All sampling notifications to NMOCD and additional correspondence are included in Appendix E.

DEFERRAL REQUEST

Devon is requesting deferral of final remediation due to the presence of active production equipment process piping, electrical lines and production pipelines preventing the full excavation of impacted soil. The estimated area of remaining impacted soil measures approximately 1,460 square feet, and assuming a depth of 6 feet based on the analytical results from delineation borehole BH04, a total of approximately 325 cubic yards of impacted soil remains in place. The deferral area and delineation soil samples are depicted on Figure 4. The impacted soil is limited to the area beneath active production equipment and surface piping, where remediation would require a major facility deconstruction. The release extent has been laterally delineated by delineation soil samples (SS01 through SS04) collected at ground surface and vertically delineated to the strictest Closure Criteria by boreholes sample locations BH01, BH02, BH03, and BH04 collected at 2 feet, 0.5 feet, 4 feet, and 6 feet bgs, respectively.

Devon does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 36 feet bgs, and the entirety of the release remained on pad. Any gross impacts were removed by excavation and hand digging. 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 nAPP2406734751 until final reclamation of the well pad or major construction, whichever comes first.



Devon Energy Production Company, LP Spud Muffin 31 30 #334H Deferral Request

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

Sincerely, **Ensolum, LLC**

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

cc: Dale Woodall, Devon Energy Production Company, LP

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations Figure 3 Excavation Soil Sample Locations

Figure 4 Deferral Area

Table 1 Delineation Soil Sample Analytical Results

Table 2 Soil Sample Analytical Results – Confirmation Soil Samples
Table 3 Soil Sample Analytical Results – Sidewall Soil Samples

Appendix A Well Log and Record

Appendix B Lithologic Soil Sampling Logs

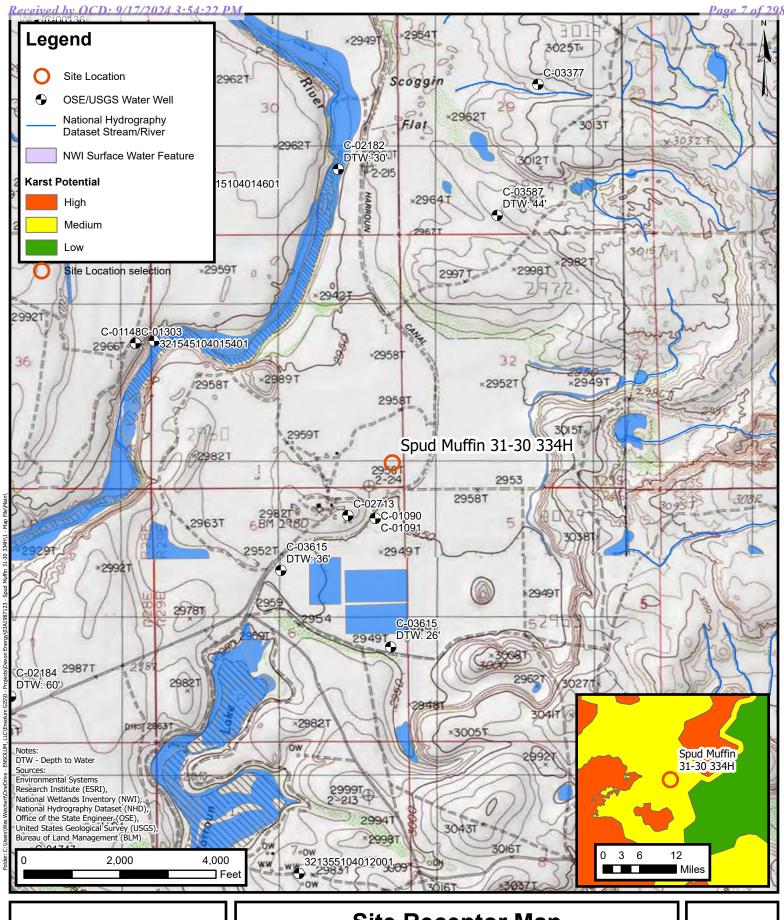
Appendix C Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Email Correspondence



FIGURES

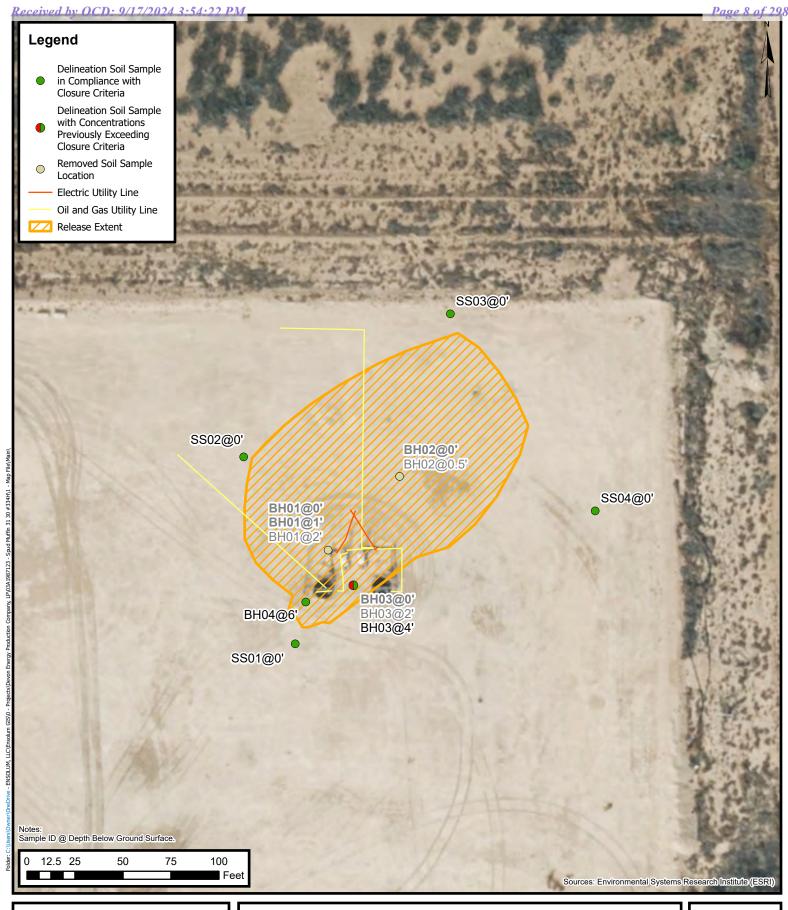




Site Receptor Map

Devon Energy Production Company Spud Muffin 31-30 334H Incident Number: nAPP2406734751 Unit P, Section 31, T 23S, R 29E Eddy County, New Mexico, United States FIGURE 1

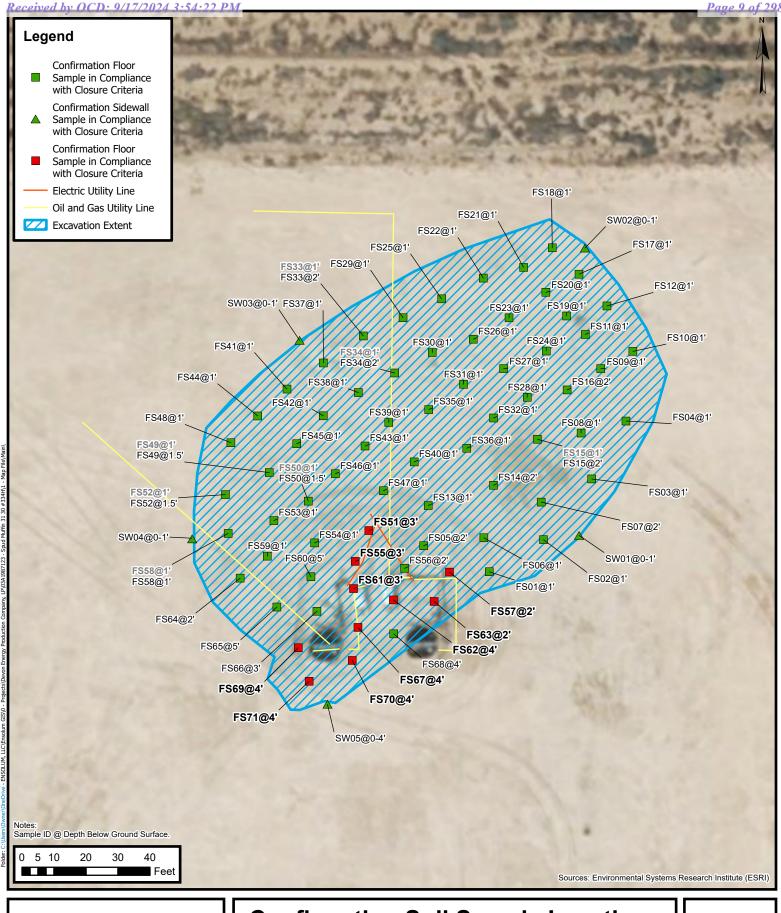
Released to Imaging: 10/17/2024 1:34:05 PM





Delineation Soil Sample Locations

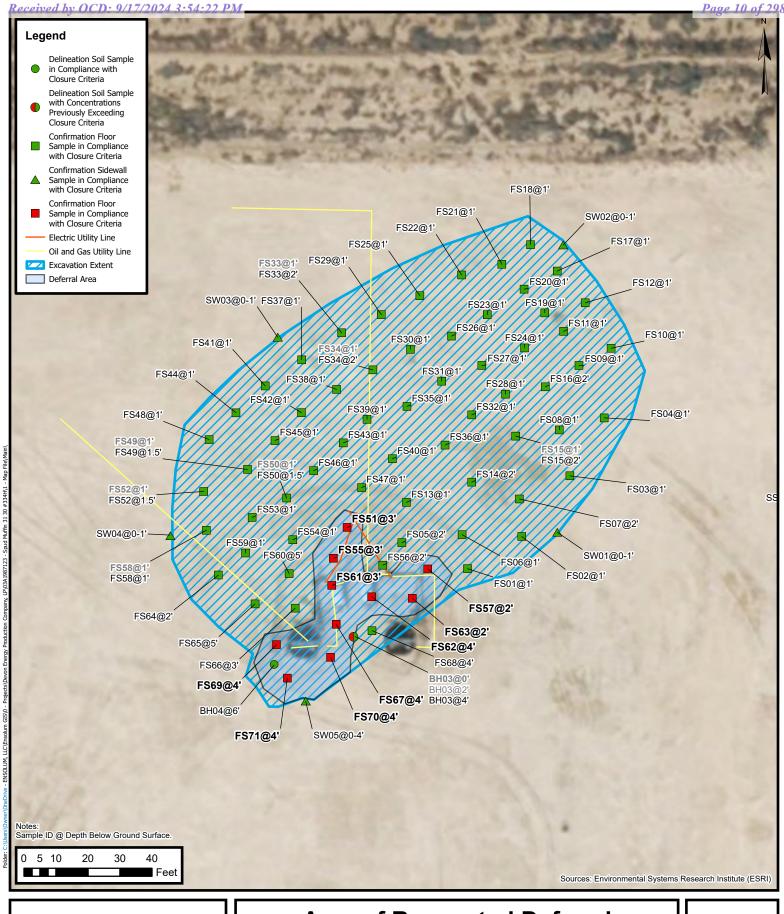
Devon Energy Production Company, LP Spud Muffin 31 30 #334H Incident Number: nAPP2406734751 Unit P, Section 31, Township 23S, Range 29E Eddy County, New Mexico FIGURE 2





Confirmation Soil Sample Locations

Devon Energy Production Company, LP Spud Muffin 31 30 #334H Incident Number: nAPP2406734751 Unit P, Section 31, Township 23S, Range 29E Eddy County, New Mexico FIGURE 3





Area of Requested Deferral

Devon Energy Production Company, LP Spud Muffin 31 30 #334H Incident Number: nAPP2406734751 Unit P, Section 31, Township 23S, Range 29E Eddy County, New Mexico FIGURE 4



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Spud Muffin 31-30 334H
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	NE	100	600	
	Delineation Soil Samples										
SS01	3/14/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	336	
SS02	3/14/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	579	
SS03	3/14/2024	0	<0.0250	<0.0250	<20.0	27.8	<50.0	<20.0	<20.0	342	
SS04	3/14/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	268	
BH01	3/27/2024	0	< 0.0250	6.189	75.5	24,200	7,540	24,275.50	31,815.50	6,750	
BH01	3/27/2024	1	< 0.0250	< 0.0250	<20.0	132	53.4	132	185.4	1,490	
BH01	3/27/2024	2	< 0.0250	< 0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	536	
BH02	3/27/2024	0	< 0.0250	< 0.0250	<20.0	954	458	954	1,412	1,040	
BH02	3/27/2024	0.5	< 0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	297	
BH03	8/16/2024	0	< 0.0250	< 0.0250	<20.0	1500	987	1500	2,487	5,020	
BH03	8/16/2024	2	< 0.0250	< 0.0250	<20.0	39.4	<50.0	39.4	39.4	301	
BH03	8/16/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	158	
BH04	9/4/2024	6	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	163	

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

Spud Muffin 31-30 334H

Devon Energy Production Company, LP

Eddy County, New Mexico

				Eddy	County, New M	exico				
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	NE	100	600
				Confi	rmation Soil Sar	nples				
FS01	8/2/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	85.9
FS02	8/2/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	151
FS03	8/2/2024	1	<0.0250	<0.0500	<20.0	27.8	<50.0	<20.0	<50.0	140
FS04	8/5/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	241
FS05	8/5/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	95.8
FS06	8/5/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	297
FS07	8/5/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	140
FS08	8/5/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	441
FS09	8/5/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	338
FS10	8/5/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	403
FS11	8/5/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	276
FS12	8/5/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	261
FS13	8/6/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	229
FS14	8/6/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	156
FS15	8/6/2024	1	<0.0250	0.0415	<20.0	2,580	108	2,580	2,688	559
FS15	8/16/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	20.4
FS16	8/6/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	301
FS17	8/6/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	305
FS18	8/6/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	171
FS19	8/6/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	285
FS20	8/6/2024	1	<0.0250	0.037	<20.0	<25.0	<50.0	<20.0	<50.0	291
FS21	8/6/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	216
FS22	8/6/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	214
FS23	8/6/2024	1	<0.0250	<0.0500	<20.0	34.2	<50.0	34.2	34.2	293
FS24	8/6/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	238
FS25	8/6/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	273
FS26	8/6/2024	1	<0.0250	<0.0500	<20.0	44.6	<50.0	44.6	44.6	272
FS27	8/6/2024	1	<0.0250	<0.0500	<20.0	59.1	<50.0	59.1	59.1	206
FS28	8/6/2024	1	<0.0250	<0.0500	<20.0	68.0	<50.0	68	68	272
FS29	8/7/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	221
FS30	8/7/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	222

Released to Imaging: 10/17/2024 1:34:05 PM



TABLE 2 - CONT'D

SOIL SAMPLE ANALYTICAL RESULTS

Spud Muffin 31-30 334H

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	NE	100	600
				Conf	irmation Soil Sar	nples				
FS31	8/7/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	196
FS32	8/7/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	189
FS33	8/7/2024	1	< 0.0250	< 0.0500	<20.0	101.0	<50.0	101	101	327
FS33	8/16/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	227
FS34	8/7/2024	1	< 0.0250	< 0.0500	<20.0	122.0	<50.0	122	122	369
FS34	8/16/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	175
FS35	8/7/2024	1	<0.0250	<0.0500	<20.0	92.5	<50.0	92.5	92.5	353
FS36	8/7/2024	1	<0.0250	<0.0500	<20.0	34.4	<50.0	34.4	34.4	119
FS37	8/7/2024	1	<0.0250	<0.0500	<20.0	52.6	<50.0	52.6	52.6	104
FS38	8/7/2024	1	<0.0250	<0.0500	<20.0	50.4	<50.0	50.4	50.4	137
FS39	8/7/2024	1	<0.0250	<0.0500	<20.0	34.1	<50.0	34.1	34.1	143
FS40	8/7/2024	1	<0.0250	<0.0500	<20.0	28.2	<50.0	28.2	28.2	414
FS41	8/7/2024	1	<0.0250	<0.0500	<20.0	29.4	<50.0	29.4	29.4	322
FS42	8/7/2024	1	<0.0250	<0.0500	<20.0	58.4	<50.0	58.4	58.4	318
FS43	8/7/2024	1	<0.0250	<0.0500	<20.0	69.1	<50.0	69.1	69.1	374
FS44	8/7/2024	1	<0.0250	<0.0500	<20.0	44.8	<50.0	44.8	44.8	283
FS45	8/7/2024	1	<0.0250	<0.0500	<20.0	48.7	<50.0	48.7	48.7	286
FS46	8/7/2024	1	<0.0250	<0.0500	<20.0	42.8	<50.0	42.8	42.8	263
FS47	8/7/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	253
FS48	8/7/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	443
FS49	8/7/2024	1	< 0.0250	< 0.0500	<20.0	102	<50.0	102	102	152
FS49	8/16/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	204
FS50	8/7/2024	1	< 0.0250	< 0.0500	<20.0	610	1,580	610	2,190	262
FS50	8/16/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	150
FS51	8/9/2024	3	<0.0250	<0.0500	<20.0	481.0	105	481	586	465
FS52	8/7/2024	1	< 0.0250	< 0.0500	<20.0	105	52.5	105	157.5	283
FS52	8/16/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	20.1
FS53	8/7/2024	1	<0.0250	<0.0500	<20.0	91.6	<50.0	91.6	91.6	286
FS54	8/7/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	237
FS55	8/9/2024	3	<0.0250	<0.0500	<20.0	419.0	<50.0	419	419	534
FS56	8/9/2024	2	<0.0250	<0.0500	<20.0	49.9	<50.0	<50.0	49.9	237
FS57	8/9/2024	2	<0.0250	<0.0500	<20.0	144	<50.0	<50.0	144	273



TABLE 2 - CONT'D

SOIL SAMPLE ANALYTICAL RESULTS

Spud Muffin 31-30 334H **Devon Energy Production Company, LP**

Eddy County, New Mexico

				uu,	County, New IVI						
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	NE	100	600	
	Confirmation Soil Samples										
FS58	8/7/2024	1	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	266	
FS58	8/8/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	184	
FS59	8/7/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	399	
FS60	8/9/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	362	
FS61	8/9/2024	3	<0.0250	<0.0500	<20.0	8,170	4,180	8,170	12,350	8,970	
FS62	8/9/2024	4	<0.0250	<0.0500	<20.0	402.0	<50.0	402	402	368	
FS63	8/9/2024	2	<0.0250	<0.0500	<20.0	468	<50.0	468	468	374	
FS64	8/9/2024	2	<0.0250	<0.0500	<20.0	42.5	<50.0	42.5	42.5	253	
FS65	8/9/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	272	
FS66	8/8/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	563	
FS67	8/9/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	838	
FS68	8/9/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	232	
FS69	8/9/2024	4	<0.0250	<0.0500	<20.0	117	<50.0	117	117	733	
FS70	8/9/2024	4	<0.0250	<0.0500	<20.0	193	<50.0	193	193	1,680	
FS71	8/9/2024	4	<0.0250	<0.0500	<20.0	392	<50.0	392	392	338	

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.

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics



GRO: Gasoline Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

DRO: Diesel Range Organics

ORO: Oil Range Organics

TABLE 3

SOIL SAMPLE ANALYTICAL RESULTS

Spud Muffin 31-30 334H 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	NE	100	600		
				Sic	dewall Soil Samp	les						
SW01	8/8/2024	0-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	67.5		
SW02	8/8/2024	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	296		
SW03	8/8/2024	0-1	<0.0250	<0.0250	<20.0	43.0	<50.0	<20.0	<20.0	466		
SW04	8/16/2024	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	44.9		
SW05	8/16/2024	0-4	<0.0250	<0.0250	<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.

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



APPENDIX A

Well Log and Record



STATE ENGINEER DEFICE

								SIAIL	ENOMEER C	Triue.			
	OSE POD N	JMBER (W	VELL.	NUMBER)				OSE FILE NU	MBER(S)				
Z	C-3615 P		•	-				7817	111 V 10 C	o			
T10	WELL OWN		7S)					PHONE (OPTI	SHAY 10 P	2: 22			
Ş				pany LLC				575-885-8	367				
ro	WELL OWN							CITY	<u>-</u>	STATE	ZIP		
TT	701 Wing							Carlsbad	1	NM 8822			
WE	/ •	JCG 1 OC	ж .						· · · · · · · · · · · · · · · · · · ·		•		
GENERAL AND WELL LOCATION	WELL	· · · I		DEGREES	MINUTES	SECOND	os —						
¥,	LOCATIO		ATT	1me 32	14	57.9	N	• ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND			
₹	(FROM GI				01	25.5	·w	DATUM REQUIRED: WGS 84					
	l '	Ĺ	LONG	πυ <u>σε</u> 104									
35	DESCRIPTIO	N RELATIN	G WEL	L LOCATION TO STREET	ADDRESS AND COMMON	CANDMARKS - PLS	S (SECTION, T	OWNSHUIP, RANC	E) WHERE AVAILABLE				
<u> </u>	Harroun	Farm											
	1								I NAME OF WELL DR				
	LICENSE NO		- 1	NAME OF LICENSED					Taylor Water W				
	WD-1348	5	۱'	Clinton E Taylor					'				
	DRILLING S	TARTED			DEPTH OF COMPLETED	WELL (FT)		LE DEPTH (FT)		ST ENCOUNTERED (FT)		
	5/4/13		5/	4/13	60		60		50				
	 		٠					STATIC WATER LEV	VEL IN COMPLETED WI	LL (FT)			
	COMPLETE	D WELL IS	s: C	ARTESIAN	ORY HOLE	SHALLOW (UNC	ONFINED)		36				
ĝ					6				1				
ΙΛΤ	DRILLING F	LUID:			● MUD	ADDITIVES - SPE							
N.S.	DRILLING N	METHOD:	0	ROTARY	C HAMMER C	CABLE TOOL	С отне	R - SPECIFY:					
FO	DEPTH	(feet bgl)	BORE HOLE	CASING MATER	IAL AND/OR		CDIC	CASING	CASING WALL	SLOT		
	FROM	ТО		DIAM	GRAD	-		ASING NECTION	INSIDE DIAM.	THICKNESS	SIZE		
N				(inches)	(include each cash	ng string, and		YPE	(inches)	(inches)	(inches)		
DRILLING & CASING INFORMATION				ļ <u>.</u>	note sections of screen)						 		
3	+3	50		6	PVC Flush Wall		Threade		2	SCH 40	<u> </u>		
Ž	50	60		6	PVC Flush Wall	Threade	ed	2	SCH 40	.010			
-				1									
)RI											ļ		
2. [
									•				
		 		ļ									
							-				 		
	ļ			-			1		 	 	 		
	<u> </u>	<u> </u>					<u> </u>		<u> </u>	<u> </u>	<u></u>		
	DEPTH	(feet bgl)	BORE HOLE	-	ULAR SEAL M			AMOUNT	METHO			
AL	FROM	то		DIAM. (inches)	GRAVEL PAG	CK SIZE-RANG	E BY INTE	RVAL	(cubic feet)	PLACEN	MENT		
ERL	0	37		6	20% Bentonite (rout			2 Sacks	Tremie			
AT.	37	45		6	Bentonite Chips				2 Sacks	Pour			
W.	45	60		6	Silica Sand Pack				6 Sacks	Pour			
4	45	00		0	Silica Sand Pack				U Jacks	Four			
ANNULAR MATERIAL				ļ						7.1.			
Z				,					·				
3.									<u> </u>				
]				
₽∩P	OSE INTER	NAI II	——					Wp.2	0 WELL RECORD	& LOG (Version 06/0	8/2012)		
	NUMBER		7	3/16		POD NUMBER				24242			
		V la	ب	3615			<u>'</u>				1 OF 3		
LLOC	MOITA	m	m	1 +0(<u>~45</u>	29 F	6.23	1	PAGE	1 OF 2		

	DEPTH (feet bgl)				ESTIMATED			
	FROM	то	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)	YIELD FOR WATER- BEARING			
				· · · · · · · · · · · · · · · · · · ·		ZONES (gpm)			
	0	7	7	Soil	OYON				
	7	14	7 '	Clay: brn,sndy	CYON				
	14	20	6	Caliche	OYON				
	20	50	30	Clay:wht,smth,stky	OYON				
	50	60	10	Sand+Gravel: rd,brn,yel brn,gry,tn,fn sand-1/8"-1/4" gravel,	\odot Y O N	5			
3				sme rd clay	OYON				
WE					OYON				
0.F					OYON				
8					OYON	:			
310					OYON				
ŏ					$O_A O_N$				
GEO					$O_A O_N$				
Š					$O_A O_N$				
HYDROGEOLOGIC LOG OF WELL					$O_A O_N$				
4					OYON				
					$O_A O_N$				
i					$O^{Y}O^{N}$				
				•	$O_A O_N$				
					$O_A O_N$	ē.			
			.'	_	$O_A O_N$				
					$O_A O_N$				
	METHOD U	SED TO ES	TIMATE YIELD		OTAL ESTIMATED	5			
į	AIR LIF	r O	BAILER ()	OTHER - SPECIFY:	ELL YIELD (gpm):	[
		TEST	RESULTS - ATT	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLU	DING DISCHARGE A	AETHOD			
NOI	WELL TES	STAR	T TIME, END TI	ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER T	THE TESTING PERIO	D.			
ERVISION	MISCELLA	NEOUS INF	ORMATION:						
C SI				. е					
r; RU									
TEST; RIG SUP	PRINT NAM	ΛE(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTR	RUCTION OTHER TH	AN LICENSEE:			
S.									
	THE UNDE	RSIGNED H	IEREBY CERTIF	TIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF,	THE FOREGOING IS	A TRUE AND			
JRE				DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECO TO DAYS AFTER COMPLETION OF WELL DRILLING:	UKU WITH THE STA	i e engineer			
ΥΨ						÷			
AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:									
9		DATE							
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME / / DATE								
	FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)								
<u> </u>	E NUMBER	<u>'-3</u>	<u>615 </u>	POD NUMBER TRN NUMBER	334343	L DI CE COEC			
Lroo	CATION					PAGE 2 OF 2			



APPENDIX B

Photographic Log



Photographic Log

Devon Energy Production Company, LP Spud Muffin 31-30 334H Incident Number: nAPP2406734751





Photograph 1 Date: 03/14/2024 Date: 03/14/2024 Photograph 2

Description: Site Signage Description: Initial Release View: Southwest

View: South





Photograph 3 Date: 03/14/2024 Photograph 4 Date: 03/14/2024

Description: Initial Release **Description: Delineation Sampling**

View: Northwest View: North

Photographic Log

Devon Energy Production Company, LP Spud Muffin 31-30 334H Incident Number: nAPP2406734751





Photograph 5 Date: 03/27/2024

Description: Delineation Sampling

View: Southwest

Photograph 6 Date: 03/27/2024

Description: Delineation Sampling

View: Southwest





Date: 07/31/2024

Photograph 7
Description: Hydrovac

View: North

Date: 07/31/2024

Photograph 8

Description: Hydrovac

View: North

Page 2 of 7

Photographic Log

Devon Energy Production Company, LP Spud Muffin 31-30 334H Incident Number: nAPP2406734751





Photograph 9 Date: 08/01/2024

Description: Excavation Activities

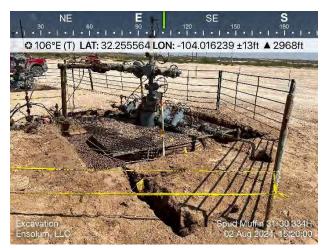
View: North

Photograph 10 Date: 08/01/2024

Description: Excavation Activities

View: North





Photograph 11 Date: 08/02/2024 Photograph 12 Date: 08/02/2024

Description: Excavation Activities Description: Excavation Activities

View: Northwest View: East

Photographic Log

Devon Energy Production Company, LP Spud Muffin 31-30 334H Incident Number: nAPP2406734751





Photograph 13 Date: 08/05/2024

Description: Excavation Activities

View: Northwest

Photograph 14 Date: 08/05/2024

Description: Excavation Activities

View: Northwest





Photograph 15 Date: 08/06/2024

Description: Excavation Activities

View: Northeast

Photograph 16 Date: 08/06/2024

Description: Excavation Activities

View: West

Photographic Log

Devon Energy Production Company, LP Spud Muffin 31-30 334H Incident Number: nAPP2406734751





Photograph 17 Date: 08/07/2024

Description: Excavation Activities

View: Southwest

Photograph 18 Date: 08/07/2024

Description: Excavation Activities

View: North





Photograph 19 Date: 08/08/2024

Description: Excavation Activities

View: North

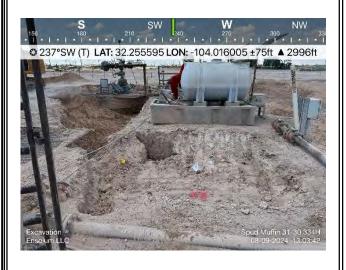
Photograph 20 Date: 08/08/2024

Description: Excavation Activities

View: North

Photographic Log

Devon Energy Production Company, LP Spud Muffin 31-30 334H Incident Number: nAPP2406734751





Photograph 21 Date: 08/09/2024

Description: Excavation Activities

View: Southwest

Photograph 22 Date: 08/09/2024

Description: Excavation Activities

View: North





Photograph 23 Date: 08/16/2024

Description: Excavation Activities

View: East

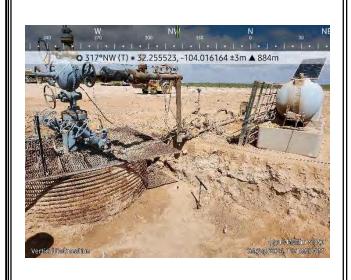
Photograph 24 Date: 08/16/2024

Description: Excavation Activities

View: West

Photographic Log

Devon Energy Production Company, LP Spud Muffin 31-30 334H Incident Number: nAPP2406734751





Photograph 25 Date: 09/04/2024 Description: Hand Auger (Area of Requested Deferral)

View: Northwest

Date: 09/04/2024 Photograph 26 Description: Hand Auger (Area of Requested Deferral)

View: Northeast





Photograph 27 Date: 09/04/2024 Description: Hand Auger (Area of Requested Deferral)

View: Southwest

Date: 09/04/2024 Photograph 28

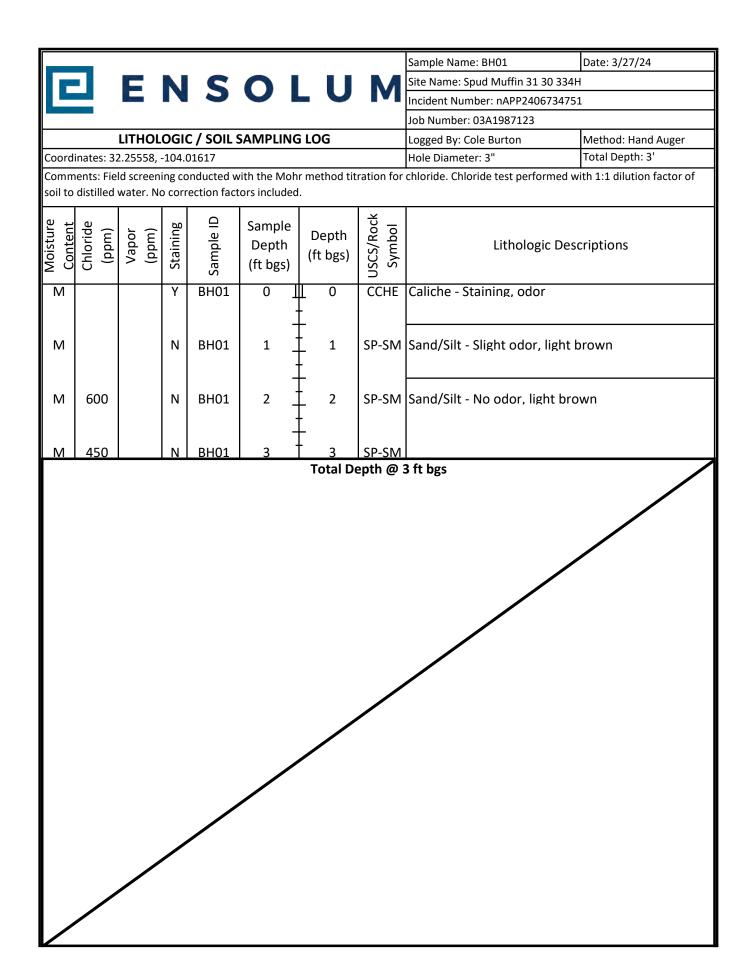
Description: Hand Auger (Area of Requested Deferral)

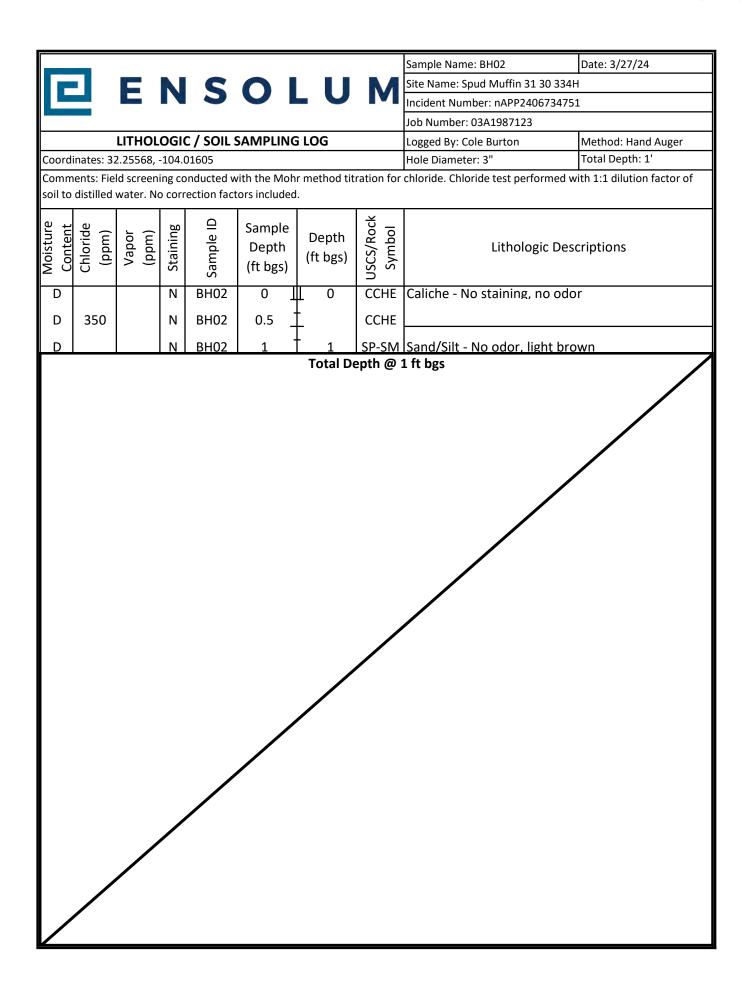
View: South

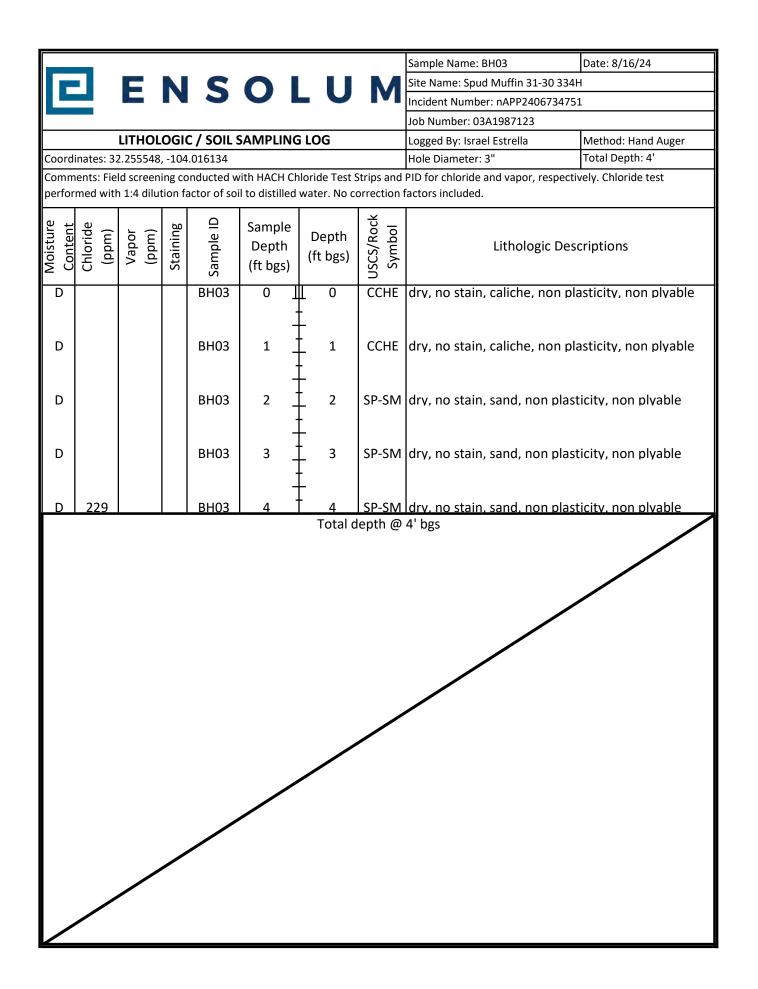


APPENDIX C

Lithologic Soil Sampling Logs









APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E403152

Job Number: 01058-0007

Received: 3/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/20/24

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: 3/20/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E403152

Date Received: 3/18/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/18/2024 8:30:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01 -0'	5
SS04 -0'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

Devon Energy - Carlsbad		Project Name:	Spud Muffin 31 30 334H	Reported:
١	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported.
	Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/20/24 16:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 -0'	E403152-01A	Soil	03/14/24	03/18/24	Glass Jar, 2 oz.
SS04 -0'	E403152-02A	Soil	03/14/24	03/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/20/2024 4:07:57PM

SS01 -0' E403152-01

	E403132-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	rst: EG	·	Batch: 2412008
ND	0.0250	1	03/18/24	03/20/24	
ND	0.0250	1	03/18/24	03/20/24	
ND	0.0250	1	03/18/24	03/20/24	
ND	0.0250	1	03/18/24	03/20/24	
ND	0.0500	1	03/18/24	03/20/24	
ND	0.0250	1	03/18/24	03/20/24	
	94.0 %	70-130	03/18/24	03/20/24	
mg/kg	mg/kg	Analy	rst: EG		Batch: 2412008
ND	20.0	1	03/18/24	03/20/24	
	90.3 %	70-130	03/18/24	03/20/24	
mg/kg	mg/kg	Analy	rst: KM		Batch: 2412017
ND	25.0	1	03/18/24	03/19/24	
ND	50.0	1	03/18/24	03/19/24	
	86.7 %	50-200	03/18/24	03/19/24	
mg/kg	mg/kg	Analy	rst: IY		Batch: 2412009
336	20.0	1	03/18/24	03/19/24	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg Mg/kg mg/kg ND 20.0 90.3 % mg/kg MD 25.0 ND 50.0 86.7 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 mg/kg mg/kg Analy ND 20.0 1 90.3 % 70-130 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 86.7 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg Analyst: EG ND 0.0250 1 03/18/24 ND 0.0250 1 03/18/24 ND 0.0250 1 03/18/24 ND 0.0250 1 03/18/24 ND 0.0500 1 03/18/24 ND 0.0250 1 03/18/24 mg/kg mg/kg Analyst: EG ND 20.0 1 03/18/24 mg/kg mg/kg Analyst: KM ND 25.0 1 03/18/24 ND 25.0 1 03/18/24 ND 50.0 1 03/18/24 ND 50.0 1 03/18/24 Mg/kg Mg/kg Analyst: KM	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 03/18/24 03/20/24 ND 0.0250 1 03/18/24 03/20/24 ND 0.0250 1 03/18/24 03/20/24 ND 0.0500 1 03/18/24 03/20/24 ND 0.0250 1 03/18/24 03/20/24 ND 0.0250 1 03/18/24 03/20/24 mg/kg mg/kg Analyst: EG ND 20.0 1 03/18/24 03/20/24 mg/kg mg/kg Analyst: KM ND 25.0 1 03/18/24 03/19/24 ND 25.0 1 03/18/24 03/19/24 ND 50.0 1 03/18/24 03/19/24 ND 50.0 1 03/18/24 03/19/24 ND 50.0 1 03/18/24

Sample Data

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/20/2024 4:07:57PM

SS04 -0' E403152-02

		E403132-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2412008
Benzene	ND	0.0250	1	03/18/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/18/24	03/20/24	
Toluene	ND	0.0250	1	03/18/24	03/20/24	
o-Xylene	ND	0.0250	1	03/18/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/18/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/18/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	03/18/24	03/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2412008
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/18/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	70-130	03/18/24	03/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2412017
Diesel Range Organics (C10-C28)	ND	25.0	1	03/18/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/18/24	03/19/24	
Surrogate: n-Nonane		90.4 %	50-200	03/18/24	03/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: IY		Batch: 2412009
Chloride	268	20.0	1	03/18/24	03/19/24	



Spud Muffin 31 30 334H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 3/20/2024 4:07:57PM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2412008-BLK1) Prepared: 03/18/24 Analyzed: 03/19/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.45 8.00 93.1 70-130 LCS (2412008-BS1) Prepared: 03/18/24 Analyzed: 03/19/24 4.90 5.00 98.0 70-130 Benzene 0.0250 Ethylbenzene 5.00 0.0250 5.00 100 70-130 4.98 0.0250 5.00 99.6 70-130 Toluene 99.1 o-Xylene 4.96 0.0250 5.00 70-130 10.1 10.0 101 70-130 0.0500 p.m-Xvlene 100 70-130 15.0 15.0 Total Xylenes 0.0250 8.00 95.0 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.60 Matrix Spike (2412008-MS1) Source: E403155-01 Prepared: 03/18/24 Analyzed: 03/19/24 5.05 0.0250 5.00 ND 54-133 Benzene 0.0413 5.21 103 61-133 Ethylbenzene 0.0250 5.00 Toluene 5.15 0.0250 5.00 ND 103 61-130 5.28 ND 106 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.4 0.0500 10.0 0.0602 104 63-131 15.7 0.0250 15.0 0.0602 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.52 8.00 Matrix Spike Dup (2412008-MSD1) Source: E403155-01 Prepared: 03/18/24 Analyzed: 03/19/24 4.95 0.0250 5.00 ND 54-133 2.14 0.0413 61-133 1.93 5.11 0.0250 5.00 101 20 Ethylbenzene 61-130 Toluene 5.06 0.0250 5.00 ND 101 1.78 20 5.17 5.00 ND 103 63-131 2.01 20 o-Xylene 0.0250

0.0602

0.0602

101

102

92.8

63-131

63-131

70-130

1.98

1.99

20

20

10.0

15.0

8.00

0.0500

0.0250

10.2

15.4

7.42



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	Spud Muffin 31 30 334H 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/20/2024 4:07:57PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			3/	20/2024 4:07:57PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2412008-BLK1)							Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			
LCS (2412008-BS2)							Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			
Matrix Spike (2412008-MS2)				Source:	E403155-0	01	Prepared: 0	3/18/24 Ana	lyzed: 03/20/24
Gasoline Range Organics (C6-C10)	58.4	20.0	50.0	ND	117	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			
Matrix Spike Dup (2412008-MSD2)				Source:	E403155-0	01	Prepared: 0	3/18/24 Ana	lyzed: 03/20/24
Gasoline Range Organics (C6-C10)	60.8	20.0	50.0	ND	122	70-130	4.05	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.8	70-130			

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo3/20/2024 4:07:57PM

Artesia NM, 88210		Project Manager	r: As	hley Gioveng	go				3/20/2024 4:07:57PN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412017-BLK1)							Prepared: 0	3/18/24 Aı	nalyzed: 03/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.1		50.0		90.1	50-200			
LCS (2412017-BS1)							Prepared: 0	3/18/24 Aı	nalyzed: 03/19/24
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
urrogate: n-Nonane	44.7		50.0		89.3	50-200			
Matrix Spike (2412017-MS1)				Source:	Source: E403153-01 F		Prepared: 0	3/18/24 Aı	nalyzed: 03/19/24
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132			
urrogate: n-Nonane	44.1		50.0		88.1	50-200			
Matrix Spike Dup (2412017-MSD1)				Source:	E403153-	01	Prepared: 0	3/18/24 Aı	nalyzed: 03/19/24
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132	3.22	20	
'urrogate: n-Nonane	42.2		50.0		84.3	50-200			

Devon Energy - Carlsbad Project Name: Spud Muffin 31 30 334H 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo							Reported: 3/20/2024 4:07:57PM			
		Anions	by EPA	300.0/9056	\				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	

Blank (2412009-BLK1)						Prepared: 03	3/18/24 Analyzed: 03/	/18/24
Chloride	ND	20.0						
LCS (2412009-BS1)						Prepared: 03	3/18/24 Analyzed: 03/	/18/24
Chloride	258	20.0	250	103	90-110			
LCS Dup (2412009-BSD1)						Prepared: 03	3/18/24 Analyzed: 03/	/18/24
Chloride	258	20.0	250	103	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:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/20/24 16:07

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.



	A Pr	ogra	m
CV	VA	SD	WA
		RC	RA
ta	te		
Т	AZ	TX	
m	arks		

evon					Bill To			1	Lab U	se Or	ılv		T		TAT		EPA P	rogram
	1 30 3341	Н		Atte			Lab .WC					ber	1D	2D			CWA	SDW
lanager: Ashle	ey Giover	ngo				[‡] 150	E 403	152	2			X						
3122 Nationa	Parks H	wy		City	, State, Zip: Hobbs NM, 88	3240			Analysis and Method		d					RCR		
	d NM, 88	3220		Pho	one: (575)748-1838		by											
				Em	ail: dale.woodall@dvn.cor	n	ORO										State	
	olum.cor	n					RO/	21	00	0	0.0		Σ		×	NM CO	UT AZ	TX
ue by:							3/02	y 80	/ 826	601	le 30				12.7	×	in life	
Date Sampled	Matrix	No. of Containers	Sample ID				PH GF	EXP	OC by	etals	loric		300		000		Remarks	
2/44/2024		containers		_	5504 01	Number	T 6	8 8	>	Σ	Ù		B		9			
3/14/2024	Soil	1			5501 - 0	1							х					
3/14/2024	Soil	1			SS04 - 0'	7							х					
		promis		A. C. C. C.				cha	milto									lad
							cation,			1000								led or
						Date	Time					-	1:	ab Us	e Only			
Eng Mil	er	3-	15-24 7:	30	Michielle Gun	L 315-2	4 0	73	08	Rece	eived	on ice:						
d by: (Signature)		Date	Time		Received by: (Signature)		Time				31,00					T3		
d by: (Signature)		Date	Time		Received by: (Signature)	Date	Time	UU		11			14			13		
u		13	1524 2	Voo	·42:	3/185/	240	33	0	AVG	Tem	p°c 4	-					
	Spud Muffin 3 Manager: Ashlo 3122 Nationa e, Zip: Carlsba 675-988-0055 giovengo@ens ue by: Date Sampled 3/14/2024 3/14/2024 3/14/2024 d by: (Signature) d by: (Signature)	Spud Muffin 31 30 3341 Manager: Ashley Giover 3122 National Parks H e, Zip: Carlsbad NM, 88 675-988-0055 giovengo@ensolum.cor ue by: Date Sampled Matrix 3/14/2024 Soil 3/14/2024 Soil 3/14/2024 Soil dispression of collection is considered frauced by: (Signature) dispression of the collection of collection is considered frauced by: (Signature) (Signature) (Signature) (Signature) (Signature) (Signature) (Signature)	Spud Muffin 31 30 334H Manager: Ashley Giovengo 3122 National Parks Hwy e, Zip: Carlsbad NM, 88220 675-988-0055 Giovengo@ensolum.com ue by: Date Sampled Matrix No. of Containers 3/14/2024 Soil 1 3/14/2024 Soil 1 3/14/2024 Soil 1 disp: (Signature) Date disp: (Signature) Date Use Signature) Date Use Signature) Date Use Signature) Date Use Signature) Date Use Signature Sig	Spud Muffin 31 30 334H Manager: Ashley Giovengo 3122 National Parks Hwy e, Zip: Carlsbad NM, 88220 675-988-0055 Giovengo@ensolum.com ue by: Date Sampled Matrix No. of Containers Sample ID 3/14/2024 Soil 1 3/14/2024 Soil 1 3/14/2024 Soil 1 in the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the sample of collection is considered fraud and may be grounds for legal and the s	Spud Muffin 31 30 334H Manager: Ashley Giovengo 3122 National Parks Hwy e, Zip: Carlsbad NM, 88220 575-988-0055 Giovengo@ensolum.com ue by: Date Sampled Matrix Na. of Containers Sample ID 3/14/2024 Soil 1 3/14/2024 Soil 1 3/14/2024 Soil 1 Instructions: Please CC: cburton@ensolum.com, age ler), attest to the validity and authenticity of this sample. I am aware that the of collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action. In the collection is considered fraud and may be grounds for legal action.	Attention: Dale Woodall Address: 205 E Bender Road f City, State, Zip: Hobbs NM, 88 e, Zip: Carlsbad NM, 88220 i35-988-0055 giovengo@ensolum.com ue by: Date Sampled Matrix Road Continiors 3/14/2024 Soil 1 SS01 - 0' 3/14/2024 Soil 1 SS04 - 0' SS04 - 0' SS04 - 0' Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, of the collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: Collection is considered fraud and may be grounds for legal action. Sampled by: C	Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com Jate Sampled Matrix Road Containers Jate Sampled Matrix Road Sample ID Jate Sampled Matrix Road Sample ID Jate Sampled Soil 1 Jate Sampled Soil 1 Jate Sampled Soil 1 Jate Soil 2 Jate Soil 3 Jate Soil 3 Jate Soil 4 Jate Soil 3 Jate Soil 4 Jate	Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com use by: Date Sampled Matrix Constitutes Sample ID 3/14/2024 Soil 1 3/14/2024 Soil 1 3/14/2024 Soil 1 3/14/2024 Soil 1 SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com SS04 - 0' Z Attention: Dale Woodall Address: 205 E Bender Road #150 Ending State All Sta	Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com use by: Date Sampled Matrix Na or Constitutions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com, chall instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dvn.com	Attention: Dale Woodall Address: 205 E Bender Road #150 E #0315 2 C #0	Attention: Dale Woodall Address: 205 E Bender Road #150 I Date Sampled Marixx Standard Sta	Attention: Dale Woodall Address: 205 E Bender Road #150 Sample Analysis are that tampering with or intentionally mislabelling the sample location, sampled by: Signature) Sample Irre Sampled by: Signature) Sampled by: Sampled by: Sig	Attention: Dale Woodall Lab WO# E 10315 2 Job Number 201558 - OOT 1 Lab WO# E 10315 2 Job Number 201559 - OOT 1 Lab WO# E 10315 2 Job Number 201559 - OOT 1 Lab WO# E 10315 2 Job Number 201559 - OOT 1 Lab Wo# E 10315 2 Job Number 201559 - OOT 1 Lab Wo# E 10315 2 Job Number 201559 - OOT 1 Job Number 201559 - OO	Attention: Dale Woodall Lab WO# Lab Wow Lab Wow	Attention: Dale Woodall Attention: Dale Woodall Address: 205 E Bender Road #150 City, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com E 403/152 Analysis and Method Phone: (575)748-1838 Email: dale.woodall@dvn.com E 403/152 E 403/152 Date Sampled Matrix Constitute Constitute Date Sampled Matrix Constitute Date Sampled Matrix Constitute Date Sampled Date Sampled Date Date Sampled Date Sampled Date Date Date Sampled Date Date	Attention: Dale Woodall Lab Work Lab Number Lab Work Lab Number Lab Number	Snud Muffin 31 30 334H Changer: Ashley Glovengo 3122 National Parks Hwy e, Zip: Carlsbad NM, 88220 Typ-988-0055 glovengo@ensolum.com ue by: Date Sampled Marrix Continues Sample ID SS01 - 0' SS04 - 0' Chy, State, Zip: Hobbs NM, 88240 Phone: (575)748-1838 Email: dale.woodall@dvn.com Ue by: Date Sampled Marrix Continues Sample ID SS04 - 0' Z SS01 - 0' Analysis and Method Number N	Saud Muffin 31 30 334H tanager: Ashley Glovengo 3122 National Parks Hwy e, Zip: Carlsbad NIM, 88220 Try. 5988-0055 tiovengo@ensolum.com use by: Diete Sampled Matrix Causein Sample ID SS01 - 0' SS04 - 0' SS



or disposed of at the client expense. The report for the analysis of the above on the report.

Recent the report.

Recent the analysis of the above on the report.

Page 12 of 13

Printed: 3/19/2024 10:15:42AM

Envirotech Analytical Laboratory

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:	03/18/24	08:30	Work Order ID:	E403152
Phone:	(505) 382-1211	Date Logged In:	03/18/24	08:35	Logged In By:	Angelina Pineda
Email:	ashley.giovengo@wescominc.com	Due Date:	03/22/24	17:00 (4 day TAT)		
Chain at	Crustody (COC)					
	Custody (COC)		V			
	he sample ID match the COC? he number of samples per sampling site location mat	tch the COC	Yes			
	samples dropped off by client or carrier?	ich die COC	Yes	<i>a</i> .		
	the COC complete, i.e., signatures, dates/times, reques	stad analysess?	Yes Yes	Carrier:		
	all samples received within holding time?	sicu anaryses:	Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		103		Commen	ts/Resolution
	<u>Furn Around Time (TAT)</u> e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	· •		100			
_	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
•	ne sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?					
	s, were custody/security seals intact?		No			
			NA			
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
	<u>Container</u>	•	_			
_	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
	ion-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	bel					
	field sample labels filled out with the minimum info	ormation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation	10				
	the COC or field labels indicate the samples were pr	reserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
	filteration required and/or requested for dissolved n	netals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If yes	s, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcont	ract Laboratory					
28. Are s	amples required to get sent to a subcontract laborator	ry?	No			
29. Was	a subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	o: NA	
Client I	<u>nstruction</u>					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E403153

Job Number: 01058-0007

Received: 3/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/20/24

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: 3/20/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E403153

Date Received: 3/18/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/18/2024 8:30:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS02 -0'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

_			-	
Γ	Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Reported:
ı	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported.
l	Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/20/24 16:06

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02 -0'	E403153-01A	Soil	03/14/24	03/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/20/2024 4:06:49PM

SS02 -0' E403153-01

		E403153-01				
	D. Iv	Reporting	D.1 (D 1		N. A
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2412008
Benzene	ND	0.0250	1	03/18/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/18/24	03/20/24	
Coluene	ND	0.0250	1	03/18/24	03/20/24	
-Xylene	ND	0.0250	1	03/18/24	03/20/24	
,m-Xylene	ND	0.0500	1	03/18/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/18/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	03/18/24	03/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2412008
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/18/24	03/20/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	70-130	03/18/24	03/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2412017
Diesel Range Organics (C10-C28)	ND	25.0	1	03/18/24	03/19/24	
Dil Range Organics (C28-C36)	ND	50.0	1	03/18/24	03/19/24	
Surrogate: n-Nonane		84.0 %	50-200	03/18/24	03/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2412021
Chloride	579	20.0	1	03/18/24	03/20/24	

Spud Muffin 31 30 334H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 3/20/2024 4:06:49PM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2412008-BLK1) Prepared: 03/18/24 Analyzed: 03/19/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.45 8.00 93.1 70-130 LCS (2412008-BS1) Prepared: 03/18/24 Analyzed: 03/19/24 4.90 98.0 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.00 0.0250 5.00 100 70-130 4.98 0.0250 5.00 99.6 70-130 Toluene o-Xylene 4.96 0.0250 5.00 99.1 70-130 10.1 10.0 101 70-130 0.0500 p.m-Xvlene 100 70-130 15.0 15.0 Total Xylenes 0.0250 8.00 95.0 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.60 Matrix Spike (2412008-MS1) Source: E403155-01 Prepared: 03/18/24 Analyzed: 03/19/24 5.05 0.0250 5.00 ND 54-133 Benzene 0.0413 5.21 103 61-133 Ethylbenzene 0.0250 5.00 Toluene 5.15 0.0250 5.00 ND 103 61-130 5.28 ND 106 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.4 0.0500 10.0 0.0602 104 63-131 15.7 0.0250 15.0 0.0602 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.52 8.00 Matrix Spike Dup (2412008-MSD1) Source: E403155-01 Prepared: 03/18/24 Analyzed: 03/19/24 4.95 0.0250 5.00 ND 54-133 2.14 0.0413 61-133 1.93 5.11 0.0250 5.00 101 20 Ethylbenzene 61-130 Toluene 5.06 0.0250 5.00 ND 101 1.78 20 5.17 5.00 ND 103 63-131 2.01 20 o-Xylene 0.0250 0.0602 10.2 10.0 101 63-131 1.98 20 p,m-Xylene 0.0500



15.4

7.42

0.0250

15.0

8.00

0.0602

102

92.8

63-131

70-130

1.99

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/20/2024 4:06:49PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			3/2	20/2024 4:06:49PM		
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: EG		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes		
Blank (2412008-BLK1)							Prepared: 0	3/18/24 Anal	yzed: 03/19/24		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130					
LCS (2412008-BS2)							Prepared: 0	3/18/24 Anal	yzed: 03/19/24		
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130					
Matrix Spike (2412008-MS2)				Source:	E403155-0	01	Prepared: 0	3/18/24 Anal	yzed: 03/20/24		
Gasoline Range Organics (C6-C10)	58.4	20.0	50.0	ND	117	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130					
Matrix Spike Dup (2412008-MSD2)				Source:	E403155-0	01	Prepared: 0	3/18/24 Anal	yzed: 03/20/24		
Gasoline Range Organics (C6-C10)	60.8	20.0	50.0	ND	122	70-130	4.05	20			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.8	70-130					

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Reported:
6488 7 Rivers Hwy Artesia NM, 88210	Project Number: Project Manager:	01058-0007 Ashley Giovengo	3/20/2024 4:06:49PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			3/.	20/2024 4:06:49PN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412017-BLK1)							Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.1		50.0		90.1	50-200			
LCS (2412017-BS1)							Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
urrogate: n-Nonane	44.7		50.0		89.3	50-200			
Matrix Spike (2412017-MS1)				Source:	E403153-	01	Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132			
urrogate: n-Nonane	44.1		50.0		88.1	50-200			
Matrix Spike Dup (2412017-MSD1)				Source:	E403153-	01	Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132	3.22	20	
urrogate: n-Nonane	42.2		50.0		84.3	50-200			

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager	:	Spud Muffin 31 01058-0007 Ashley Gioveng					Reported: 3/20/2024 4:06:49PM
		Anions	by EPA	300.0/9056 <i>A</i>	A				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2412021-BLK1)						Prepared: 0	3/18/24 Aı	nalyzed: 03/19/24
Chloride	ND	20.0						
LCS (2412021-BS1)						Prepared: 0	3/18/24 Aı	nalyzed: 03/19/24
Chloride	252	20.0	250	101	90-110			
LCS Dup (2412021-BSD1)						Prepared: 0	3/18/24 Aı	nalyzed: 03/19/24
Chloride	251	20.0	250	100	90-110	0.512	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:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/20/24 16:06

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.



	Page	·	of	: <u>1</u>	Received by OCD: 9/17/2024 3:54:22 PM
EF	A Pr	ogra	m		l by
C۷	VA	SD	WA		Ö
		RC	RA		CD: 9
					X
Sta	ite				2
JT .	ΑZ	ΤX			02
					S
em	arks				54:2
					2 PM

																			·		
Client: D						Bill To		\Box	Lab Use Only							TAT		EPA P			
	Spud Muffin 3			-		Attention: Dale Woodall		\dashv					Numb			1D 2D 3D Standard			CWA	SD\	
	lanager: Ashle					City, State, Zip: Hobbs NM, 88240			,		01058-0007			للل		\perp	<u> </u>	↓	 		
	3122 Nationa										Analysis and Metho		thod		—т		_	<u></u>	RC		
	e, Zip: Carlsba	id NM, 88	3220			Phone: (575)748-1838	- -	\dashv	o e							1				L	
	75-988-0055	-1:			 	Email: dale.woodall@dvn.c	om	ᅱ	ĮĘ				_			_			NIMI CO	State UT AZ	TTY
emaii: ag Report du	iovengo@ens	olum.com	n		\dashv [<u> </u>	12	၂ နွ	g	80.0			Σ		¥	INIVI CO	101 12	 '^
	ie by.			-			Lat	ᅱ	(2)	by 8	8 8	8	ide			Я		اں	×	<u> </u>	Ь
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Numl	- 1	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC		900	_	Remarks	
10:12	3/14/2024	Soil	1			SS02 - 0'	1									x					
							s. V.	`							.						
							(2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4														
							. Line				<u> </u>			\dashv		7		+			
		-									<u> </u>			\dashv			\dashv	+			
								-								\dashv		\dashv			
										-	-			-	+	-	-	+	- 		
							<u> </u>	_	-	ļ	ļ. <u>.</u>			_	_		-	_			
															_			_			
							74 74									İ					
dditiona	I Instructions:	Please	CC: cbur	ton@ensol	um.com	, agiovengo@ensolum.com	, dale.woodal	@d	vn.com,	cha	milto	n@ei	nsolu	m.co	m, ie	stre	lla@	enso	lum.com		
•		•	•	•		hat tampering with or intentionally mi	•	le loc	ation,		_			-					ived on ice the day		oled or
	of collection is cons		and may be			Sampled by: Cole B	10.		Time		===							Only			
	by: (Signature)	M	7?	-15-24	<u> </u>		L 3-1	5-2	24 6	73	0	Rece	eived	on ic	e:	_)/ N	: Util)	, 		
Micle		h		524 "	1300	Received by: (pignature)	3.1	<u>5</u> .7	24 Time	7c	0	T1_			_ I	2		4 1	<u>T3</u>		
ling	d by: (Signature)		Date	·15.24 1		Received by: (Signature)	Date 3/18	1	Time	93		AVG	_	0.	4						



edient expense. The report for the analysis of the above

Printed: 3/19/2024 10:16:03AM

Envirotech Analytical Laboratory

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:	03/18/24	08:30	Work Order ID:	E403153
Phone:	(505) 382-1211	Date Logged In:	03/18/24	08:41	Logged In By:	Angelina Pineda
Email:	ashley.giovengo@wescominc.com	Due Date:	03/22/24	17:00 (4 day TAT)		
Chain o	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location ma	tch the COC	Yes			
3. Were samples dropped off by client or carrier?				Carrier: Courier		
	ne COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes Yes	Carrier. <u>Courier</u>		
	all samples received within holding time?	,,	Yes			
	Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi				Comment	s/Resolution
	Turn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
•	ne sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	s, were custody/security seals intact?		NA NA			
	he sample received on ice? If yes, the recorded temp is 4°C	ie 6°±2°C				
	Note: Thermal preservation is not required, if samples at minutes of sampling	re received w/i 15	Yes			
	visible ice, record the temperature. Actual sample	temperature. 4	<u>c</u>			
	Container NOC complex messent?		NI-			
	aqueous VOC samples present?		No NA			
	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)?		NA NA			
	•		NA			
	a trip blank (TB) included for VOC analyses?	9				
	non-VOC samples collected in the correct containers appropriate volume/weight or number of sample contain		Yes			
		ners conecteur	Yes			
Field La	nder rield sample labels filled out with the minimum info	armation				
	Sample ID?	omation.	Yes			
	Date/Time Collected?		Yes			
(Collectors name?		Yes			
Sample	<u>Preservation</u>					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
22. Are s	sample(s) correctly preserved?		NA			
24. Is lab	o filteration required and/or requested for dissolved r	netals?	No			
<u>Multiph</u>	ase Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	ise?	No			
27. If ye	s, does the COC specify which phase(s) is to be anal	yzed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborate	orv?	No			
	a subcontract laboratory specified by the client and i	-	NA	Subcontract Lab: NA		
	nstruction					
<u>Chene i</u>	<u>instruction</u>					

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E403154

Job Number: 01058-0007

Received: 3/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/22/24

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: 3/22/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E403154

Date Received: 3/18/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/18/2024 8:30:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS03 -0'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Danautada
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/22/24 10:48

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS03 -0'	E403154-01A Soil	03/14/24	03/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/22/2024 10:48:43AM

SS03 -0' E403154-01

		E403134-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: EG		Batch: 2412008
Benzene	ND	0.0250	1	03/18/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/18/24	03/20/24	
Toluene	ND	0.0250	1	03/18/24	03/20/24	
o-Xylene	ND	0.0250	1	03/18/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/18/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/18/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	03/18/24	03/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2412008
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/18/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	03/18/24	03/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2412017
Diesel Range Organics (C10-C28)	27.8	25.0	1	03/18/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/18/24	03/19/24	
Surrogate: n-Nonane		84.0 %	50-200	03/18/24	03/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2412054
Chloride	342	20.0	1	03/20/24	03/20/24	



Spud Muffin 31 30 334H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 3/22/2024 10:48:43AM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2412008-BLK1) Prepared: 03/18/24 Analyzed: 03/19/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.45 8.00 93.1 70-130 LCS (2412008-BS1) Prepared: 03/18/24 Analyzed: 03/19/24 4.90 98.0 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.00 0.0250 5.00 100 70-130 4.98 0.0250 5.00 99.6 70-130 Toluene o-Xylene 4.96 0.0250 5.00 99.1 70-130 10.1 10.0 101 70-130 0.0500 p.m-Xvlene 100 70-130 15.0 15.0 Total Xylenes 0.0250 8.00 95.0 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.60 Matrix Spike (2412008-MS1) Source: E403155-01 Prepared: 03/18/24 Analyzed: 03/19/24 5.05 0.0250 5.00 ND 54-133 Benzene 0.0413 5.21 103 61-133 Ethylbenzene 0.0250 5.00 Toluene 5.15 0.0250 5.00 ND 103 61-130 5.28 ND 106 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.4 0.0500 10.0 0.0602 104 63-131 15.7 0.0250 15.0 0.0602 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.52 8.00 Matrix Spike Dup (2412008-MSD1) Source: E403155-01 Prepared: 03/18/24 Analyzed: 03/19/24 4.95 0.0250 5.00 ND 54-133 2.14 0.0413 61-133 1.93 5.11 0.0250 5.00 101 20 Ethylbenzene 61-130 Toluene 5.06 0.0250 5.00 ND 101 1.78 20

5.00

10.0

15.0

8.00

0.0250

0.0500

0.0250

ND

0.0602

0.0602

103

101

102

92.8

63-131

63-131

63-131

70-130

2.01

1.98

1.99

20

20

20



o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

5.17

10.2

15.4

7.42

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/22/2024 10:48:43AM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			3/22	2/2024 10:48:43Al
	Non	halogenated	Organics l	y EPA 80	15D - Gl	RO			Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2412008-BLK1)							Prepared: 0	3/18/24 Anal	yzed: 03/19/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			
LCS (2412008-BS2)							Prepared: 0	3/18/24 Anal	yzed: 03/19/24
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			
Matrix Spike (2412008-MS2)				Source:	E403155-	01	Prepared: 02	3/18/24 Anal	yzed: 03/20/24
Gasoline Range Organics (C6-C10)	58.4	20.0	50.0	ND	117	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			
Matrix Spike Dup (2412008-MSD2)				Source:	E403155-	01	Prepared: 0	3/18/24 Anal	yzed: 03/20/24
Gasoline Range Organics (C6-C10)	60.8	20.0	50.0	ND	122	70-130	4.05	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.8	70-130			

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/22/2024 10:48:43AM

	Project Manager	r: As	niey Gioveng	30			3/.	22/2024 10:48:43AI
Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO		_	Analyst: KM
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
ND	25.0							
ND	50.0							
45.1		50.0		90.1	50-200			
						Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
275	25.0	250		110	38-132			
44.7		50.0		89.3	50-200			
			Source:	E403153-0	01	Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
287	25.0	250	ND	115	38-132			
44.1		50.0		88.1	50-200			
			Source:	E403153-0	01	Prepared: 0	3/18/24 Ana	lyzed: 03/19/24
278	25.0	250	ND	111	38-132	3.22	20	
	Result mg/kg ND ND 45.1 275 44.7	Nonhalogenated Organization Reporting Limit mg/kg Limit mg/kg ND 25.0 ND 50.0 45.1 275 25.0 44.7 287 25.0 44.1	Nonhalogenated Organics by I	Nonhalogenated Organics by EPA 80151 Result	Nonhalogenated Organics by EPA 8015D - DRO	Nonhalogenated Organics by EPA 8015D - DRO/ORO Result Limit Level Result Rec Limits mg/kg mg/kg mg/kg mg/kg mg/kg % % % %	Nonhalogenated Organics by EPA 8015D - DRO/ORO Result Rec Limit Level Result Rec Limits RPD mg/kg mg/kg mg/kg mg/kg % % % % % % % % %	Nonhalogenated Organics by EPA 8015D - DRO/ORO Reporting Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg % % % % % % % % % % % % % % % % % %

LCS (2412054-BS1)

LCS Dup (2412054-BSD1)

Chloride

Chloride

Prepared: 03/20/24 Analyzed: 03/20/24

Prepared: 03/20/24 Analyzed: 03/20/24

20

90-110

90-110

1.38

100

102

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager	: 0	Spud Muffin 31 30 334H 01058-0007 Ashley Giovengo					Reported: 3/22/2024 10:48:43AM			
	Analyst: IY											
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2412054-BLK1)						I	Prepared: 0	3/20/24 A	Analyzed: 03/20/24			
Chloride	ND	20.0										

250

250

20.0

20.0

251

255

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:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/22/24 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.



Page	of	1	Kec
			ervea
A Progr	am		Ş

OCD: 9/17/2024 3:54:22 PM

lient: De					Bill 7					_	e On			T			ΑT		EPA P	rogra
	pud Muffin 3				Attention: Dale Woodall		Lab	wo# 103	٠. سر			Numb		1D	2D	3D	St	andard	CWA	SD
	anager: Ashle			-	Address: 205 E Bender		<u> E-4</u>	103	54	•	010	58-0	<u> </u>		<u> </u>		<u> </u>	×	<u> </u>	<u> </u>
	3122 Nationa				City, State, Zip: Hobbs I	NM, 88240					Analy	sis and	Meth	od	_					RC
	, Zip: Carlsba	<u>id NM, 88</u>	3220		Phone: (575)748-1838		-	ρο				1			1				L	
	75-988-0055				Email: dale.woodall@d	vn.com	-	log						_				NAT CO	State	TTV
eport due	ovengo@ens	olum.con	<u> </u>		1 1			0 <u>R</u> 0	12	8	ឧ	8		Σ					UT AZ	17
Time	e by.	<u> </u>			<u> </u>	Lab	┥) 180	þ 8	λ 24 82	9 S	ige 3		lχ	1			_×_		
Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Numbe	_	TPH GRO/DRO/ORO by 8015	ВТЕХ БУ 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		2005			Remarks	i
10:14	3/14/2024	Soil	1		SS03 - 0'	1								x						
																			_	
						W.								1			<u> </u>			-
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								╁	T					
			-			r_{ϕ}^{ac}								T						
dditional	Instructions	Please	CC: cbur	ton@ensolun	n.com, agiovengo@ensolum.	com, dale.woodall@	dvn.c	om, c	ham	nilton	ı@en	solur	n.com	iest	rella(@ens	olun	n.com		
			•	this sample. I am	aware that tampering with or intention		ocation	,		l i	•	•	•	•				I on ice the day an 6 °C on subs		oled or
	by: (Signature)		<u></u>	Time			24	Time	73	7	Rece	ived (on ice:		ab U	se Or	nly			
	by: (Signature)	1	Date	Time	7/	Date	.24	Time	7α		T1			<u>T2</u>				<u>T3</u>	. :	
	by: (Signature)		Date	Time	Received by: (Signature			Time				Temp	°C '	4				-		



e client expense. The report for the analysis of the above

envirotech Inc.

Printed: 3/19/2024 10:16:24AM

Envirotech Analytical Laboratory

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:	03/18/24	08:30		Work Order ID:	E403154
Phone:	(505) 382-1211	Date Logged In:	03/18/24	08:45		Logged In By:	Angelina Pineda
Email:	ashley.giovengo@wescominc.com	Due Date:	03/22/24	17:00 (4 day TAT)			
Chain a	Constado (COC)						
	f Custody (COC)		Vac				
	the sample ID match the COC? The number of samples per sampling site location mat	ch the COC	Yes				
		cii tile COC	Yes				
	samples dropped off by client or carrier?	. 1 1 0	Yes	Carrier: <u>C</u>	Courier		
	ne COC complete, i.e., signatures, dates/times, reques	ited analyses?	Yes				
	all samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssion.		Yes	ı		Comment	s/Resolution
	Turn Around Time (TAT)						
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample							
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If ve	s, were custody/security seals intact?		NA				
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
		temperature. 1	<u> </u>				
	Container November = 100 commiss = 100 comm		NT-				
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers		Yes				
	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field La							
	e field sample labels filled out with the minimum info	rmation:	37				
	Sample ID?		Yes				
	Date/Time Collected? Collectors name?		Yes Yes				
	Preservation		168				
	the COC or field labels indicate the samples were pr	eserved?	No				
	sample(s) correctly preserved?	csci vca.	NA				
	o filteration required and/or requested for dissolved m	etals?	No				
	•		110				
	ase Sample Matrix	0					
	the sample have more than one phase, i.e., multiphase		No				
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcont	ract Laboratory						
28. Are s	samples required to get sent to a subcontract laborator	ry?	No				
29. Was	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	: NA		
Client I	nstruction						
							
							_

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 335H

Work Order: E403284

Job Number: 01058-0007

Received: 3/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/4/24

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: 4/4/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 335H

Workorder: E403284

Date Received: 3/29/2024 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2024 7:15:00AM, under the Project Name: Spud Muffin 31 30 335H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 335H 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 reguarding 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

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 -0'	5
BH01 -1'	6
BH01 -2'	7
BH02 -0'	8
BH02 -0.5'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

Devon	Energy - Carlsbad	Project Name:	Spud Muffin 31 30 335H	Reported:
6488 7	Rivers Hwy	Project Number:	01058-0007	Reporteu:
Artesia	NM, 88210	Project Manager:	Ashley Giovengo	04/04/24 13:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 -0'	E403284-01A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH01 -1'	E403284-02A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH01 -2'	E403284-03A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH01 -3'	E403284-04A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH02 -0'	E403284-05A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH02 -0.5'	E403284-06A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
BH02 -1'	E403284-07A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 335H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 1:31:15PM

BH01 -0' E403284-01

	E403284-01				
	1 0	7 .11.11			
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	rst: BA		Batch: 2413120
ND	0.0250	1	03/29/24	04/02/24	
0.393	0.0250	1	03/29/24	04/02/24	
0.646	0.0250	1	03/29/24	04/02/24	
1.30	0.0250	1	03/29/24	04/02/24	
3.88	0.0500	1	03/29/24	04/02/24	
5.18	0.0250	1	03/29/24	04/02/24	
	122 %	70-130	03/29/24	04/02/24	
mg/kg	mg/kg	Analy	rst: BA		Batch: 2413120
75.5	20.0	1	03/29/24	04/02/24	
	91.2 %	70-130	03/29/24	04/02/24	
mg/kg	mg/kg	Analy	rst: KM		Batch: 2414003
24200	250	10	04/01/24	04/02/24	
7540	500	10	04/01/24	04/02/24	
	112 %	50-200	04/01/24	04/02/24	
mg/kg	mg/kg	Analy	rst: DT		Batch: 2413126
6750	100	5	03/29/24	03/29/24	
	ND 0.393 0.646 1.30 3.88 5.18 mg/kg 75.5 mg/kg 24200 7540	Result Reporting Limit mg/kg mg/kg ND 0.0250 0.393 0.0250 0.646 0.0250 1.30 0.0250 3.88 0.0500 5.18 0.0250 122 % mg/kg mg/kg 75.5 20.0 91.2 % mg/kg mg/kg mg/kg 7540 500 112 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 0.393 0.0250 1 0.646 0.0250 1 1.30 0.0250 1 3.88 0.0500 1 5.18 0.0250 1 122 % 70-130 mg/kg mg/kg Analy 75.5 20.0 1 91.2 % 70-130 mg/kg mg/kg Analy 24200 250 10 7540 500 10 112 % 50-200 mg/kg Mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg Analyst: BA ND 0.0250 1 03/29/24 0.393 0.0250 1 03/29/24 0.646 0.0250 1 03/29/24 1.30 0.0250 1 03/29/24 3.88 0.0500 1 03/29/24 5.18 0.0250 1 03/29/24 mg/kg mg/kg Analyst: BA 75.5 20.0 1 03/29/24 mg/kg mg/kg Analyst: KM 24200 250 10 04/01/24 7540 500 10 04/01/24 mg/kg mg/kg Analyst: DT	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 03/29/24 04/02/24 0.393 0.0250 1 03/29/24 04/02/24 0.646 0.0250 1 03/29/24 04/02/24 1.30 0.0250 1 03/29/24 04/02/24 3.88 0.0500 1 03/29/24 04/02/24 5.18 0.0250 1 03/29/24 04/02/24 mg/kg mg/kg Analyst: BA 75.5 20.0 1 03/29/24 04/02/24 mg/kg mg/kg Analyst: KM 24200 250 10 04/01/24 04/02/24 7540 500 10 04/01/24 04/02/24 mg/kg mg/kg Analyst: CDT 04/02/24



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 335H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 1:31:15PM

BH01 -1' E403284-02

		E403204-02				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA	<u> </u>	Batch: 2413120
Benzene	ND	0.0250	1	03/29/24	04/02/24	Buten: 2 113 120
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2413120
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2414003
Diesel Range Organics (C10-C28)	132	25.0	1	04/01/24	04/02/24	
Oil Range Organics (C28-C36)	52.4	50.0	1	04/01/24	04/02/24	
Surrogate: n-Nonane		76.0 %	50-200	04/01/24	04/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2413126
Chloride	1490	20.0	1	03/29/24	03/29/24	



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 335H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 1:31:15PM

BH01 -2' E403284-03

		E403284-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilution	Frepareu	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2413120
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130	03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2413120
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2414003
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/02/24	
Surrogate: n-Nonane		70.9 %	50-200	04/01/24	04/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2413126
Chloride	536	20.0	1	03/29/24	03/29/24	·



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 335H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 1:31:15PM

BH02 -0' E403284-05

		E403204-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2413120
Benzene	ND	0.0250	1	03/29/24	04/03/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/03/24	
Toluene	ND	0.0250	1	03/29/24	04/03/24	
o-Xylene	ND	0.0250	1	03/29/24	04/03/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/03/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/03/24	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	03/29/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2413120
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	03/29/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2414003
Diesel Range Organics (C10-C28)	954	25.0	1	04/01/24	04/02/24	
Oil Range Organics (C28-C36)	458	50.0	1	04/01/24	04/02/24	
Surrogate: n-Nonane		76.5 %	50-200	04/01/24	04/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2413126
Chloride	1040	20.0	1	03/29/24	03/30/24	



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 335H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 1:31:15PM

BH02 -0.5' E403284-06

		E403204-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2413120
Benzene	ND	0.0250	1	03/29/24	04/03/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/03/24	
Toluene	ND	0.0250	1	03/29/24	04/03/24	
o-Xylene	ND	0.0250	1	03/29/24	04/03/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/03/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/03/24	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	03/29/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2413120
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	03/29/24	04/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2414003
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/02/24	
Surrogate: n-Nonane		74.2 %	50-200	04/01/24	04/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2413126
Chloride	297	20.0	1	03/29/24	03/30/24	



Spud Muffin 31 30 335H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 4/4/2024 1:31:15PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2413120-BLK1) Prepared: 03/29/24 Analyzed: 04/02/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.70 8.00 96.3 70-130 LCS (2413120-BS1) Prepared: 03/29/24 Analyzed: 04/02/24 4.73 94.6 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.59 0.0250 5.00 91.8 70-130 4.72 0.0250 5.00 94.3 70-130 Toluene 93.2 o-Xylene 4.66 0.0250 5.00 70-130 9.41 10.0 94.1 70-130 0.0500 p.m-Xvlene 93.8 14.1 15.0 70-130 Total Xylenes 0.0250 8.00 97.0 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.76 Matrix Spike (2413120-MS1) Source: E403275-11 Prepared: 03/29/24 Analyzed: 04/02/24 5.33 0.0250 5.00 ND 54-133 Benzene ND 103 61-133 Ethylbenzene 5.16 0.0250 5.00 Toluene 5.32 0.0250 5.00 ND 106 61-130 5.26 ND 105 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.6 0.0500 10.0 ND 106 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.68 8.00 Matrix Spike Dup (2413120-MSD1) Source: E403275-11 Prepared: 03/29/24 Analyzed: 04/02/24 5.24 0.0250 5.00 ND 54-133 1.73 ND 61-133 5.07 0.0250 5.00 101 1.81 20 Ethylbenzene 61-130 Toluene 5 22 0.0250 5.00 ND 104 1 94 20 5.15 5.00 ND 103 63-131 2.08 20 o-Xylene 0.0250 1.79 10.4 10.0 ND 104 63-131 20

0.0500

0.0250

15.0

8.00

ND

103

95.8

63-131

70-130

1.89

20

15.5

7.66



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 335H 01058-0007	Reported:
6488 7 Rivers Hwy Artesia NM, 88210	Project Number: Project Manager:	Ashley Giovengo	4/4/2024 1:31:15PM

Artesia NM, 88210		Project Manager	: As	shley Gioveng	go			4.	/4/2024 1:31:15PN
	Non	halogenated (Organics	by EPA 801	15D - GI	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2413120-BLK1)							Prepared: 0	3/29/24 Ana	lyzed: 04/02/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			
LCS (2413120-BS2)							Prepared: 0	3/29/24 Ana	lyzed: 04/02/24
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			
Matrix Spike (2413120-MS2)				Source:	E403275-1	11	Prepared: 0	3/29/24 Ana	lyzed: 04/02/24
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			
Matrix Spike Dup (2413120-MSD2)				Source:	E403275-1	11	Prepared: 0	3/29/24 Ana	lyzed: 04/02/24
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.3	70-130	5.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			



Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	Spud Muffin 31 30 335H 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/4/2024 1:31:15PM

Artesia NM, 88210		Project Manager	r: As	hley Gioveng	go			2	1/4/2024 1:31:15PM
	Nonhal	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2414003-BLK1)							Prepared: 0	4/01/24 An	alyzed: 04/02/24
biesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	37.2		50.0		74.3	50-200			
.CS (2414003-BS1)							Prepared: 0	4/01/24 An	alyzed: 04/02/24
riesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
urrogate: n-Nonane	38.6		50.0		77.2	50-200			
Aatrix Spike (2414003-MS1)				Source:	E403262-0	04	Prepared: 0	4/01/24 An	alyzed: 04/02/24
viesel Range Organics (C10-C28)	3090	500	250	2710	149	38-132			M4
urrogate: n-Nonane	36.0		50.0		72.1	50-200			
Matrix Spike Dup (2414003-MSD1)				Source:	E403262-0	04	Prepared: 0	4/01/24 An	alyzed: 04/02/24
tiesel Range Organics (C10-C28)	3010	500	250	2710	120	38-132	2.37	20	
urrogate: n-Nonane	35.2		50.0		70.4	50-200			

Chloride

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Spud Muffin 31 01058-0007	30 335H				Reported:
Artesia NM, 88210		Project Manager	: A	Ashley Gioveng	go				4/4/2024 1:31:15PM
		Anions	by EPA	300.0/9056	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2413126-BLK1)							Prepared: 0	3/29/24 A	nalyzed: 03/29/24
Chloride	ND	20.0							
LCS (2413126-BS1)							Prepared: 0	3/29/24 A	nalyzed: 03/29/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2413126-MS1)				Source:	E403279-	05	Prepared: 0	3/29/24 A	nalyzed: 03/29/24
Chloride	647	20.0	250	319	131	80-120			M1
Matrix Spike Dup (2413126-MSD1)				Source:	E403279-	05	Prepared: 0	3/29/24 A	nalyzed: 03/29/24

250

20.0

126

80-120

2.03

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:	Spud Muffin 31 30 335H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/04/24 13:31

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



RA	
11/4	

					Δtte	Bill To		Lab Use Only Lab WO# Job Number									TAT	EPA Program			
	anager: Ashle	DV (TIOVAL	Project: Spud Muffin 31 30 335H Project Manager: Ashley Giovengo			ention: Dale Woodall	1 0 0 5 0		Lab \	WO#	.0.1	10	ob N	umbe	r	1D 2	D 3	3D Standard		CWA	SDWA
Address:	2422 11 11					ress: 205 E Bender Roa			E 4	032	284				007				X		
0'. 0						, State, Zip: Hobbs NM,	88240		_			An	nalysi	is and	Method				1		RCRA
	e, Zip: Carlsba	id NM, 88	3220			ne: (575)748-1838	_) by											
	75-988-0055				Ema	il: dale.woodall@dvn.c	om			/ORC										State	
	iovengo@ens	olum.cor	n							NON	8021	0 0	0	0.0	1 1	Σ	}		NM CO	UT AZ	TX
Report du	e by:		_							30/0	y 80	/ 8260	601	le 3(×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number		TPH GRO/DRO/ORO by 8015	втех by	VOC by	Metals 6010	Chloride 300.0		верос	0000	3		Remarks	
9:08	3/27/2024	Soil	1			BH01 - 0'		1								х					
9:15	3/27/2024	Soil	1			BH01 - 1'		2								х					
9:21	3/27/2024	Soil	1			BH01 - 2'		3								х					
9:25	3/27/2024	Soil	1			BH01 - 3'		4								х			Do not run for E	GDOC unless BH or 100 TPH	01 - 2° is > 600Cl
9:36	3/27/2024	Soil	1			BH02 - 0'		5								х					
9:40	3/27/2024	Soil	1		E	BH02 - 0.5'		6								х					
9:55	3/27/2024	Soil	1		10	BH02 - 1'		7								х				r BGDOC unless E	
Additional	Instructions:	Please	CC: cbur	ton@ensolun	n.com, agi	iovengo@ensolum.com	, dale.wo	odall@c	lvn.cc	om, c	hamil	ton@	ens	olum	.com, i	estrell	a@er	isolur	n.com		
				this sample. I am		ampering with or intentionally m		sample lo	cation,										on ice the day an 6°C on subse		ed or
and,	by: (Signature)			28-24 Time	:301	Received by: (Signature)	/ 1	228-3	24		36	Re	eceiv	ed or	n ice:	Lab (Y)/	Use (Only			
WW.	by: (Signature) by: (Signature)	zh	3-3		100	Received by: (Signature)	So	3.28	.24	19	15	T:	1			T2			<u>T3</u>		
Indre	w No	50	Date 3	28.24 Time	400	Received by: (Signature)	D	3/291	24	o7	15	A۱	VG T	emp '	°c	<u>f</u>	W			18	
	:: S - Soil, Sd - Solid							ontainer													
Note: Sample	es are discarded	30 days aft	er results a	re reported unle	ss other arr	angements are made. Hazar	dous sample	es will be	return	ed to d	lient o	r disp	osed	of at th	ne client	expens	e. The	report	for the anal	ysis of the a	above
amples is ap	plicable only to	those samp	oles receive	d by the laborate	ory with this	COC. The liability of the labo	ratory is lim	ited to th	e amo	unt pa	id for c	on the	repo	rt.						7 7 7 7	



Envirotech Analytical Laboratory

Printed: 4/2/2024 12:24:36PM

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:	03/29/2	1 07:15	Work Ord	er ID:	E403284
Phone:	(505) 382-1211	Date Logged In:	03/29/24	1 10:04	Logged I	ı By:	Angelina Pineda
Email:	ashley.giovengo@wescominc.com	Due Date:	04/04/2	4 17:00 (4 day TAT)			
Chain o	of Custody (COC)				-		
1. Does	the sample ID match the COC?		Yes				
	the number of samples per sampling site location mate	h the COC	Yes				
	samples dropped off by client or carrier?		Yes	Carrier: C	'ourier		
	he COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes	currer. <u>c</u>	JOHN CI		
	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion	the field,	Yes		Co	mmen	uts/Resolution
	Turn Around Time (TAT)	-	Yes		WO remarks state	s: Do	not run for
	ne COC indicate standard TAT, or Expedited TAT?		res				
Sample					BGDOC for Samp		
	sample cooler received?		Yes		>600 CL or 100 T	PH. I	Do not run for
-	, was cooler received in good condition?		Yes	i	BGDOC for Samp	le 7	unless BH02 -0.5 is
	he sample(s) received intact, i.e., not broken?		Yes		> 600 CL or 100 T		
10. Were	e custody/security seals present?		No		500 CD 01 100 1		
11. If ye	s, were custody/security seals intact?		NA				
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling		Yes				
13. If no	visible ice, record the temperature. Actual sample t	emperature: 4°0	С				
	Container		_				
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample containers.	er collected?	Yes	J			
Field La		is conected?	103				
20. Were	field sample labels filled out with the minimum infor	mation:					
	Sample ID? Date/Time Collected?		Yes				
_	Collectors name?		Yes	·-	_		
	Preservation		Yes				
	the COC or field labels indicate the samples were pre	served?	No				
	sample(s) correctly preserved?		NA				
	o filteration required and/or requested for dissolved me	tals?	No				
			140				
`	ase Sample Matrix	.0					
	the sample have more than one phase, i.e., multiphase		No				
27. If yes	s, does the COC specify which phase(s) is to be analyz	ea?	NA				
	ract Laboratory						
	samples required to get sent to a subcontract laboratory		No				
29. Was a	a subcontract laboratory specified by the client and if s	o who?	NA	Subcontract Lab	: NA		
Client I	nstruction						
Γ							
1							
1							
			-			-	
							. [3]
Signat	ture of client authorizing changes to the COC or sample dispo	sition.			Date		envirotech In

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E408035

Job Number: 01058-0007

Received: 8/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/8/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/8/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E408035

Date Received: 8/6/2024 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2024 6:30:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS01 - 1'	5
FS02 - 1'	6
FS03 - 1'	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Donoutoda
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/08/24 11:38

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS01 - 1'	E408035-01A Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS02 - 1'	E408035-02A Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS03 - 1'	E408035-03A Soil	08/02/24	08/06/24	Glass Jar, 2 oz.



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/8/2024 11:38:10AM

FS01 - 1' E408035-01

		E408035-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: BA		Batch: 2432019
Benzene	ND	0.0250	1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/06/24	
Toluene	ND	0.0250	1	08/06/24	08/06/24	
p-Xylene	ND	0.0250	1	08/06/24	08/06/24	
o,m-Xylene	ND	0.0500	1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/06/24	
Surrogate: 4-Bromochlorobenzene-PID		88.5 %	70-130	08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2432019
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2432047
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/07/24	
Surrogate: n-Nonane		116 %	50-200	08/07/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2432015
Chloride	85.9	20.0	1	08/06/24	08/06/24	

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/8/2024 11:38:10AM

FS02 - 1' E408035-02

	E400033-02				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: BA		Batch: 2432019
ND	0.0250	1	08/06/24	08/06/24	
ND	0.0250	1	08/06/24	08/06/24	
ND	0.0250	1	08/06/24	08/06/24	
ND	0.0250	1	08/06/24	08/06/24	
ND	0.0500	1	08/06/24	08/06/24	
ND	0.0250	1	08/06/24	08/06/24	
	88.1 %	70-130	08/06/24	08/06/24	
mg/kg	mg/kg	Analy	yst: BA		Batch: 2432019
ND	20.0	1	08/06/24	08/06/24	
	108 %	70-130	08/06/24	08/06/24	
mg/kg	mg/kg	Analy	yst: NV		Batch: 2432047
ND	25.0	1	08/07/24	08/07/24	
ND	50.0	1	08/07/24	08/07/24	
	107 %	50-200	08/07/24	08/07/24	
mg/kg	mg/kg	Analy	yst: JM		Batch: 2432015
151	20.0	1	08/06/24	08/06/24	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 88.1 % mg/kg mg/kg mg/kg ND 20.0 108 % mg/kg ND 25.0 ND 50.0 107 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 88.1 % 70-130 mg/kg mg/kg Analy ND 20.0 1 108 % 70-130 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 107 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 08/06/24 ND 0.0250 1 08/06/24 ND 0.0250 1 08/06/24 ND 0.0250 1 08/06/24 ND 0.0500 1 08/06/24 ND 0.0250 1 08/06/24 mg/kg mg/kg Analyst: BA ND 20.0 1 08/06/24 mg/kg mg/kg Analyst: NV ND 25.0 1 08/07/24 ND 50.0 1 08/07/2	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 ND 0.0500 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 mg/kg mg/kg Analyst: BA ND 20.0 1 08/06/24 08/06/24 mg/kg mg/kg Analyst: NV ND 25.0 1 08/07/24 08/07/24 ND 50.0 1 08/07/24 08/07/24 ND 50.0 1 08/07/24 08/07/24 ND 50.0 1 08/07/24



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/8/2024 11:38:10AM

FS03 - 1' E408035-03

		E400033-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2432019
Benzene	ND	0.0250	1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/06/24	
Toluene	ND	0.0250	1	08/06/24	08/06/24	
o-Xylene	ND	0.0250	1	08/06/24	08/06/24	
o,m-Xylene	ND	0.0500	1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/06/24	
Surrogate: 4-Bromochlorobenzene-PID		88.1 %	70-130	08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2432019
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2432047
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/07/24	
Surrogate: n-Nonane		115 %	50-200	08/07/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2432015
Chloride	140	20.0	1	08/06/24	08/06/24	



		QC SI	ullilli	ary Dat	a				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Spud Muffin 31 01058-0007	30 334H				Reported:
Artesia NM, 88210		Project Manager:	A	Ashley Gioveng	go				8/8/2024 11:38:10AM
		Volatile O	rganics	by EPA 802	21B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432019-BLK1)							Prepared: 0	8/06/24 A	nalyzed: 08/06/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.8	70-130			
LCS (2432019-BS1)							Prepared: 0	8/06/24 A	analyzed: 08/06/24
Benzene	4.85	0.0250	5.00		97.1	70-130			
thylbenzene	4.57	0.0250	5.00		91.4	70-130			
oluene	4.79	0.0250	5.00		95.7	70-130			
-Xylene	4.63	0.0250	5.00		92.6	70-130			
,m-Xylene	9.41	0.0500	10.0		94.1	70-130			
Total Xylenes	14.0	0.0250	15.0		93.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			
Matrix Spike (2432019-MS1)				Source:	E408031-0	06	Prepared: 0	8/06/24 A	analyzed: 08/06/24
Benzene	5.40	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
oluene	5.31	0.0250	5.00	ND	106	61-130			
-Xylene	5.14	0.0250	5.00	ND	103	63-131			
o,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.07		8.00		88.4	70-130			
Matrix Spike Dup (2432019-MSD1)				Source:	E408031-0	06	Prepared: 0	8/06/24 A	analyzed: 08/06/24
Benzene	5.49	0.0250	5.00	ND	110	54-133	1.67	20	
Ethylbenzene	5.17	0.0250	5.00	ND	103	61-133	2.17	20	
Toluene	5.42	0.0250	5.00	ND	108	61-130	1.93	20	
o-Xylene	5.25	0.0250	5.00	ND	105	63-131	2.13	20	
o,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	2.24	20	
Total Virlamas	15.0	0.0250	15.0	ND	106	62 121	2.21	20	



15.9

7.11

0.0250

15.0

8.00

ND

106

88.9

63-131

70-130

2.21

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Gasoline Range Organics (C6-C10)

QC Summary Data

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo8/8/2024 11:38:10AM

Artesia Nivi, 88210		Froject Manager	1. AS	liley Glovelig	30			8/8	72024 11.36.10AN
	Non	Analyst: BA							
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2432019-BLK1)							Prepared: 0	8/06/24 Analy	yzed: 08/06/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.55		8.00		107	70-130			
LCS (2432019-BS2)							Prepared: 0	8/06/24 Anal	yzed: 08/06/24
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.50		8.00		106	70-130			
Matrix Spike (2432019-MS2)				Source:	E408031-	06	Prepared: 0	8/06/24 Analy	yzed: 08/06/24

Surrogate: 1-Chloro-4-fluorobenzene-FID	8.58		8.00		107	70-130			
Matrix Spike Dup (2432019-MSD2)				Source:	E408031-0)6	Prepared: 08	/06/24 Analyzed: 08/06/24	
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130	8.69	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		106	70-130			

ND

70-130

50.0

48.7

20.0

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	Spud Muffin 31 30 334H 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/8/2024 11:38:10AM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			8	/8/2024 11:38:10AN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432047-BLK1)							Prepared: 0	8/07/24 Ana	alyzed: 08/07/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.5		50.0		115	50-200			
LCS (2432047-BS1)							Prepared: 0	8/07/24 Ana	alyzed: 08/08/24
Diesel Range Organics (C10-C28)	293	25.0	250		117	38-132			
Surrogate: n-Nonane	58.0		50.0		116	50-200			
Matrix Spike (2432047-MS1)				Source:	E408050-	05	Prepared: 0	8/07/24 Ana	alyzed: 08/08/24
Diesel Range Organics (C10-C28)	294	25.0	250	ND	117	38-132			
Surrogate: n-Nonane	60.4		50.0		121	50-200			
Matrix Spike Dup (2432047-MSD1)				Source:	E408050-	05	Prepared: 0	8/07/24 Ana	alyzed: 08/08/24
Diesel Range Organics (C10-C28)	291	25.0	250	ND	117	38-132	0.803	20	
Surrogate: n-Nonane	60.3		50.0		121	50-200			

Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		pud Muffin 31 1058-0007	30 334H				Reported:
Artesia NM, 88210		Project Manager		shley Gioven	go				8/8/2024 11:38:10AM
		Anions	by EPA	300.0/9056	A				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432015-BLK1)							Prepared: 0	8/05/24 A	nalyzed: 08/05/24
Chloride	ND	20.0							
LCS (2432015-BS1)							Prepared: 0	8/05/24 A	nalyzed: 08/05/24
Chloride	250	20.0	250		99.8	90-110			
Matrix Spike (2432015-MS1)				Source:	E408028-0	08	Prepared: 0	8/05/24 A	nalyzed: 08/05/24
Chloride	262	20.0	250	ND	105	80-120			
Matrix Spike Dup (2432015-MSD1)				Source:	E408028-0	08	Prepared: 0	8/05/24 A	nalyzed: 08/05/24
Chloride	262	20.0	250	ND	105	80-120	0.112	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:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/08/24 11:38

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.

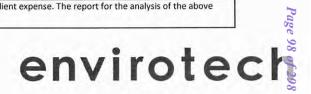
Note (1): Methods marked with ** are non-accredited methods.

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



1	
e / of /	Page
	, age _

	Clie	nt Inform	nation			Invoice Information	n				La	b Us	e On	ly				T	AT			State	e
Client: D	evon					ompany: Devon			Lab '	WO#			Job I	Num	ber		1D	2D	3D S	td	NM	CO UT	TX
Project:		luffiin 31	-30 334H		_ Ā	ddress: 205 E Bender Road #	150				303		Ole			57			x	_	x		
	/lanager: As	hley Giov	engo		Ci	ty, State, Zip: Hobbs NM, 88	240																
A	3122 Natio				Ph	one: (575)748-1838							Ana	lysis	and	Met	hod				EP	A Progra	am
City, Stat	e, Zip: Carls	bad NM,	88220		E	mail: dale.woodall@dvn.co	m														SDWA	CWA	RCRA
Phone:	575-988-005	5			Mi	scellaneous: Dale Woodall								- 4			3						
Email: a	giovengo@e	nsolum.c	om							15	15										Compliand	e Y	or N
										/ 80	/ 80	1		0.0	-	×	als				PWSID#		
				Samp	ole Informat	ion				30 b	30 b	802	8260	e 300	- NA	05 - T	Met			T			
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	La Num	b ber	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					Remarks	
13:43	8/2/2024	Soil	1			FS01 - 1'		1							х								
13:46	8/2/2024	Soil	1			FS02 - 1'		5	2						x								
14:28	8/2/2024	Soil	1			FS03 - 1'		-	3						х								
							1																
Addition	al Instruction	ns: Ple	ase CC: cl	ourton@e	nsolum.com	, agiovengo@ensolum.com,	dale.wo	odall	@dv	n.coi	m, ch	ami	lton@	Pens	olun	n.cor	n, ie:	strel	la@en:	solu	ım.com		
I, (field sam	pler), attest to th	e validity and	d authenticit	of this samp	le. I am aware th	at tampering with or intentionally mislal	beling the sa	ample lo	cation	, date	or time	e of co	llection	n is cor	nsidere	ed frau	d and	may b	e ground	s for l	legal action.		
	:_Cole Burton				Disc.	Total and a second	Terr			1-						0.77 - 7 - 6							
Relinquish	ed by: (Signatu	re)	Date	15/29	7:41	Received by: (Signature)		5.2		Time	115								in ice at a	n avg	st be received temp above 0		
VVic	ed by: (Signatu	ongal		524	1540	Received by: (Signature)		.5.	4	Time	83	a			Rec	eivec	d on i	ice:	Lab		e Only		
Cha	ed by: (Signatu	10880	Date	.5.24	7400	Received by: (Signature)		6-2	4	-	63	0			<u>T1</u>				<u>T2</u>			<u>T3</u>	
	ned by: (Signatu		Date		Time	Received by: (Signature)	Date			Time						Ten			1				
	trix: S - Soil, Sd - S																		v - VOA				
						r arrangements are made. Hazardo h this COC. The liability of the labor										e clier	nt exp	ense.	The rep	ort f	or the anal	ysis of the	above



Printed: 8/6/2024 9:31:23AM

Envirotech Analytical Laboratory

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:	08/06/24	06:30	Work Order ID:	E408035
Phone:	(505) 382-1211	Date Logged In:	08/05/24	16:53	Logged In By:	Noe Soto
Email:	ashley.giovengo@wescominc.com	Due Date:	08/12/24	17:00 (4 day TAT)		
Chain a	Custody (COC)					
	f Custody (COC)		37			
	he sample ID match the COC? he number of samples per sampling site location ma	tch the COC	Yes			
	samples dropped off by client or carrier?	ion inc coc	Yes Yes	Comion Courier		
	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	Carrier: <u>Courier</u>		
	all samples received within holding time?	sted unary ses.	Yes			
3. Wele	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssis.		103		Comment	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
•	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>			
Sample	Container_					
	iqueous VOC samples present?		No			
	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			
	non-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	bel					
•	field sample labels filled out with the minimum info	ormation:				
5	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	Preservation	10				
	the COC or field labels indicate the samples were pr	reserved?	No			
	sample(s) correctly preserved?	. 1.0	NA			
	o filteration required and/or requested for dissolved n	ietais?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcont	ract Laboratory					
	amples required to get sent to a subcontract laborato a subcontract laboratory specified by the client and it	•	No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E408062

Job Number: 01058-0007

Received: 8/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/12/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/12/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E408062

Date Received: 8/7/2024 11:20:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2024 11:20:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS04-1'	5
FS05-2'	6
FS06-1'	7
FS07-2'	8
FS08-1'	9
FS09-1'	10
FS10-1'	11
FS11-1'	12
FS12-1'	13
QC Summary Data	14
QC - Volatile Organic Compounds by EPA8260B	14
QC - Nonhalogenated Organics by EPA 8015D - GRO	15
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	16
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc	19

Sample Summary

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Donoutode
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/12/24 09:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS04-1'	E408062-01A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS05-2'	E408062-02A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS06-1'	E408062-03A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS07-2'	E408062-04A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS08-1'	E408062-05A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS09-1'	E408062-06A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS10-1'	E408062-07A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS11-1'	E408062-08A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS12-1'	E408062-09A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/12/2024 9:36:49AM

FS04-1' E408062-01

	Reporting					
Result	Limit	Dil	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	IY		Batch: 2432074
ND	0.0250		1	08/07/24	08/09/24	
ND	0.0250		1	08/07/24	08/09/24	
ND	0.0250		1	08/07/24	08/09/24	
ND	0.0250		1	08/07/24	08/09/24	
ND	0.0500		1	08/07/24	08/09/24	
ND	0.0250		1	08/07/24	08/09/24	
	114 %	70-130		08/07/24	08/09/24	
	92.2 %	70-130		08/07/24	08/09/24	
	108 %	70-130		08/07/24	08/09/24	
mg/kg	108 % mg/kg	70-130	Analyst:		08/09/24	Batch: 2432074
mg/kg ND			Analyst:		08/09/24	Batch: 2432074
	mg/kg			IY		Batch: 2432074
	mg/kg 20.0			IY 08/07/24	08/09/24	Batch: 2432074
	mg/kg 20.0	70-130		IY 08/07/24 08/07/24	08/09/24 08/09/24	Batch: 2432074
	mg/kg 20.0 114 % 92.2 %	70-130 70-130		IY 08/07/24 08/07/24 08/07/24 08/07/24	08/09/24 08/09/24 08/09/24	Batch: 2432074 Batch: 2432072
ND	mg/kg 20.0 114 % 92.2 % 108 %	70-130 70-130	1	IY 08/07/24 08/07/24 08/07/24 08/07/24	08/09/24 08/09/24 08/09/24	
ND mg/kg	mg/kg 20.0 114 % 92.2 % 108 % mg/kg	70-130 70-130	1	IY 08/07/24 08/07/24 08/07/24 08/07/24 KM	08/09/24 08/09/24 08/09/24 08/09/24	
ND mg/kg ND	mg/kg 20.0 114 % 92.2 % 108 % mg/kg 25.0	70-130 70-130	1	08/07/24 08/07/24 08/07/24 08/07/24 KM 08/07/24	08/09/24 08/09/24 08/09/24 08/09/24	
ND mg/kg ND	mg/kg 20.0 114 % 92.2 % 108 % mg/kg 25.0 50.0	70-130 70-130 70-130 50-200	1	08/07/24 08/07/24 08/07/24 08/07/24 08/07/24 KM 08/07/24 08/07/24 08/07/24	08/09/24 08/09/24 08/09/24 08/09/24 08/09/24	
	mg/kg ND ND ND ND ND ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 ND 0.0250 ND 114 %	Result Limit Dil mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 ND 70-130	Result Limit Dilution mg/kg mg/kg Analyst: ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 08/07/24 ND 0.0250 1 08/07/24 ND 0.0250 1 08/07/24 ND 0.0250 1 08/07/24 ND 0.0500 1 08/07/24 ND 0.0250 1 08/07/24 ND 0.0250 1 08/07/24 114 % 70-130 08/07/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 08/07/24 08/09/24 ND 0.0500 1 08/07/24 08/09/24 ND 0.0250 1 08/07/24 08/09/24 ND 0.0250 1 08/07/24 08/09/24 114 % 70-130 08/07/24 08/09/24



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/12/2024 9:36:49AM

FS05-2'

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: IY		Batch: 2432074
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130	08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		87.0 %	70-130	08/07/24	08/09/24	
Surrogate: Toluene-d8		109 %	70-130	08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	analyst: IY		Batch: 2432074
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130	08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		87.0 %	70-130	08/07/24	08/09/24	
Surrogate: Toluene-d8		109 %	70-130	08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: KM		Batch: 2432072
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane		107 %	50-200	08/07/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: DT		Batch: 2432109
Allions by ETA 500:0/7050A						



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/12/20249:36:49AM

FS06-1'

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2432074
Benzene	ND	0.0250		1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250		1	08/07/24	08/09/24	
Toluene	ND	0.0250		1	08/07/24	08/09/24	
o-Xylene	ND	0.0250		1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500		1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250		1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		114 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		107 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2432074
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		114 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		107 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432072
Diesel Range Organics (C10-C28)	ND	25.0		1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/07/24	08/09/24	
Surrogate: n-Nonane		99.6 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432109



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/12/20249:36:49AM

FS07-2'

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY	?		Batch: 2432074
Benzene	ND	0.0250	1		08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1		08/07/24	08/09/24	
Toluene	ND	0.0250	1		08/07/24	08/09/24	
o-Xylene	ND	0.0250	1		08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1		08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1		08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		115 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		108 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY	?		Batch: 2432074
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		115 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		108 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: K	M		Batch: 2432072
Diesel Range Organics (C10-C28)	ND	25.0	1		08/07/24	08/09/24	_
Oil Range Organics (C28-C36)	ND	50.0	1		08/07/24	08/09/24	
Surrogate: n-Nonane		102 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: D'	Т		Batch: 2432109
Chloride	140	20.0	1		08/08/24	08/08/24	<u> </u>



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/12/20249:36:49AM

FS08-1'

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2432074
Benzene	ND	0.0250	1	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		88.4 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		108 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2432074
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		88.4 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		108 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432072
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/07/24	08/09/24	
Surrogate: n-Nonane		108 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432109



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/12/20249:36:49AM

FS09-1'

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2432074
Benzene	ND	0.0250	1	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		114 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		88.4 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		110 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2432074
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		114 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		88.4 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		110 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432072
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/07/24	08/09/24	
Surrogate: n-Nonane		108 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432109
Amons by EFA 500.0/9050A							



 Devon Energy - Carlsbad
 Project Name:
 Spud Muffin 31 30 334H

 6488 7 Rivers Hwy
 Project Number:
 01058-0007
 Reported:

 Artesia NM, 88210
 Project Manager:
 Ashley Giovengo
 8/12/2024
 9:36:49AM

FS10-1'

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2432074
Benzene	ND	0.0250	1	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		115 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		89.5 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		110 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2432074
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		115 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		89.5 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		110 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2432072
Diesel Range Organics (C10-C28)	28.8	25.0	1	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/07/24	08/09/24	
Surrogate: n-Nonane		105 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2432109
		·			·	08/08/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/12/20249:36:49AM

FS11-1'

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2432074
Benzene	ND	0.0250	1	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		108 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2432074
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		108 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2432072
Diesel Range Organics (C10-C28)	63.4	25.0	1	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/07/24	08/09/24	
Surrogate: n-Nonane		106 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2432109



 Devon Energy - Carlsbad
 Project Name:
 Spud Muffin 31 30 334H

 6488 7 Rivers Hwy
 Project Number:
 01058-0007
 Reported:

 Artesia NM, 88210
 Project Manager:
 Ashley Giovengo
 8/12/2024
 9:36:49AM

FS12-1'

		Reporting					
Analyte	Result	Limit	Dilı	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2432074
Benzene	ND	0.0250		1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250		1	08/07/24	08/09/24	
Toluene	ND	0.0250		1	08/07/24	08/09/24	
o-Xylene	ND	0.0250		1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500		1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250		1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		107 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2432074
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/07/24	08/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130		08/07/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130		08/07/24	08/09/24	
Surrogate: Toluene-d8		107 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432072
Diesel Range Organics (C10-C28)	ND	25.0		1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/07/24	08/09/24	
Surrogate: n-Nonane		111 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432109
· · · · · · · · · · · · · · · · · · ·		20.0			08/08/24	08/08/24	



Matrix Spike (2432074-MS1)

Ethylbenzene

QC Summary Data

Devon Energy - Carlsbad Spud Muffin 31 30 334H Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 8/12/2024 9:36:49AM Volatile Organic Compounds by EPA 8260B Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2432074-BLK1) Prepared: 08/07/24 Analyzed: 08/08/24 ND 0.0250 Ethylbenzene ND 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.581 0.500 116 70-130 Surrogate: 1,2-Dichloroethane-d4 0.439 0.500 87.7 70-130 0.500 108 70-130 Surrogate: Toluene-d8 0.541 LCS (2432074-BS1) Prepared: 08/07/24 Analyzed: 08/08/24 2.22 0.0250 2.50 89.0 70-130 Benzene 2.37 2.50 94.7 70-130 Ethylbenzene 0.0250 2.42 0.0250 2.50 96.8 70-130 2.52 2.50 101 70-130 o-Xylene 0.0250 5.04 5.00 101 70-130 p,m-Xylene 0.0500 7.56 0.0250 7.50 101 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.577 0.500 115 70-130 0.500 88.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.440 Surrogate: Toluene-d8 0.500 70-130 0.546

Editylocimente		0.0250									
Toluene	2.42	0.0250	2.50	ND	96.9	48-130					
o-Xylene	2.64	0.0250	2.50	ND	105	43-135					
p,m-Xylene	5.22	0.0500	5.00	ND	104	43-135					
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135					
Surrogate: Bromofluorobenzene	0.585		0.500		117	70-130					
			0.500		20.7	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.7	/0-130					
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.449 0.536		0.500		107	70-130					
ů ·				Source:		70-130	Prepared: 08	8/07/24	Analyzed:	08/08/24	
Surrogate: Toluene-d8		0.0250		Source:	107	70-130	Prepared: 08	8/07/24	Analyzed:	08/08/24	
Surrogate: Toluene-d8 Matrix Spike Dup (2432074-MSD1)	0.536	0.0250 0.0250	0.500		107 E408037- 2	70-130 23	1		Analyzed:	08/08/24	
Surrogate: Toluene-d8 Matrix Spike Dup (2432074-MSD1) Benzene	2.36		2.50	ND	107 E408037- 2 94.5	70-130 23 48-131	3.66	23	Analyzed:	08/08/24	

2.50

2.50

Source: E408037-23

93.6

48-131 45-135

4.05

4.20

27

27

ND

ND

2.28

2.34

0.0250

0.0250



Prepared: 08/07/24 Analyzed: 08/08/24

QC Summary Data

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo8/12/20249:36:49AM

Nonhalogenated	Organice	by FDA	2015D	CPO
Nonnaiogenateu	Organics	UyEIA	0013D -	GIVO

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

	resur				1100				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432074-BLK1)							Prepared: 0	8/07/24 Ana	lyzed: 08/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.581		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.439		0.500		87.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			
LCS (2432074-BS2)							Prepared: 0	8/07/24 Ana	lyzed: 08/08/24
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	·	105	70-130	·	·	
Surrogate: Bromofluorobenzene	0.599		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.439		0.500		87.8	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			
Matrix Spike (2432074-MS2)				Source:	E408037-	23	Prepared: 0	8/07/24 Ana	lyzed: 08/08/24
Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.447		0.500		89.3	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			
Matrix Spike Dup (2432074-MSD2)				Source:	E408037-	23	Prepared: 0	8/07/24 Ana	lyzed: 08/08/24
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	2.35	20	
Surrogate: Bromofluorobenzene	0.591		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			



QC Summary Data

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo8/12/20249:36:49AM

Artesia NM, 88210		Project Manager	r: As	hley Gioveng	go			8.	/12/2024 9:36:49AI
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432072-BLK1)							Prepared: 0	8/07/24 Ana	alyzed: 08/09/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.5		50.0		107	50-200			
LCS (2432072-BS1)							Prepared: 0	8/07/24 Ana	alyzed: 08/09/24
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			
Matrix Spike (2432072-MS1)				Source:	E408062-	02	Prepared: 0	8/07/24 Ana	alyzed: 08/09/24
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			
Matrix Spike Dup (2432072-MSD1)				Source:	E408062-	02	Prepared: 0	8/07/24 Ana	alyzed: 08/09/24
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	4.17	20	
Surrogate: n-Nonane	55.9		50.0		112	50-200			



Matrix Spike Dup (2432109-MSD1)

Chloride

352

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number Project Manager	: (Spud Muffin 31 01058-0007 Ashley Gioveng					Reported: 8/12/2024 9:36:49AM
		Anions	by EPA	300.0/9056	4				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
Blank (2432109-BLK1)							Prepared: 0	8/08/24 Ai	nalyzed: 08/08/24
Chloride	ND	20.0							
LCS (2432109-BS1)							Prepared: 0	8/08/24 A	nalyzed: 08/08/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2432109-MS1)				Source:	E408062-	02	Prepared: 0	8/08/24 A	nalyzed: 08/08/24
Chloride	356	20.0	250	95.8	104	80-120			

250

20.0

Source: E408062-02

95.8

103

80-120

0.996

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.



Prepared: 08/08/24 Analyzed: 08/08/24

20

Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/12/24 09:36

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.



	Clier	nt Inform	nation				Inv	oice Info	ormation					La	b Us	e On	ly				TA	T			State	e
Client: D Project:			-30 334H				: 205	E Bender	r Road #15 NM, 8824				vo#	1عاد		Job			07	1D	2D	3D	Std x	NM x	CO UT	TX
Address:	3122 Nation	nal Parks	Hwy		Ph	one: ((575)7	48-1838		0		F				Ana	lysis	and	Met	hod					A Progra	1
Phone:	e, Zip: Carlsl 575-988-005! giovengo@er	5					_	woodall@ Dale Wo	@dvn.com odall				215	215										SDWA Complian	CWA	or N
-				Sam	ple Informat	ion				1		+) by 8() by 8(021	760	300.0	MM	XI.	letals				PWSID#		
Time Sampled	Date Sampled	Matrix	No. of Containers			Samp	le ID			Field	Lab	er	DRO/ORO	GRO/DRO by	BTEX by 8	VOC by 8260	Chloride 300.	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remarks	
12:32	8/5/2024	Soil	1			FS04	- 1'				1			0			0	x	-							
15:02	8/5/2024	Soil	1			FS05	- 2'				2							х			(- 1)					
12:35	8/5/2024	Soil	1			FS06	- 1'				3							x								
15:15	8/5/2024	Soil	1			FS07	- 2'				4							x								
12:37	8/5/2024	Soil	1			FS08	- 1'				5							х				П				
14:59	8/5/2024	Soil	1			FS09	- 1'				6							х								
14:06	8/5/2024	Soil	1			FS10	- 1'				7							x								
14:08	8/5/2024	Soil	1			FS11	- 1'				8							x								
14:09	8/5/2024	Soil	1			FS12	- 1'				9							х								Y
Addition	al Instructio	ns: Ple	ase CC: cl	ourton@e	ensolum.com	, agiov	/engo(@ensolu	m.com, da	le.woo	dall@	dvn	.con	n, ch	amil	ton@	ens	olun	n.cor	n, ies	strell	a@ei	nsoli	um.com		
	oler), attest to the	validity and	d authenticity	of this samp	le. I am aware th	at tampe	ring with	h or intention	nally mislabeli	ng the sar	nple locat	tion,	date c	or time	of co	llectio	n is co	nsider	ed frau	d and	may be	groun	ds for	legal action.		
Relinquish	ed by: (Signatur	re)	Date 8	15/24	Time 8:01	Projective	ved by:	(Signature	onzale	S Date	624		Time	130										ust be received g temp above 0		
Mic	ed by: (Signatur	ment	Date 8	624	1705	100	(.)	Signature			.6.2	-	Time	8:	5			Rec	eivec	l on i	ice:		b Us	e Only		
(d by: (Signatur			6.24	2330	he	gley	(Signature	Hall	B-	7.20	4	-	20				<u>T1</u>				T2			<u>T3</u>	
	ed by: (Signatur		Date		Time	Receiv	ved by:	(Signature	2)	Date			Time						Ten							
	rix: S - Soil, Sd - So ples are discard				er rted unless othe	r arrang	ements	are made	Hazardous		tainer T		_	_		_	_		_					for the anal	usis of the	ahove

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 Inc.

Printed: 8/7/2024 2:34:27PM

Envirotech Analytical Laboratory

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:	08/07/24	11:20	Work Order ID:	E408062
Phone:	(505) 382-1211	Date Logged In:	08/07/24	11:14	Logged In By:	Keyliegh Hall
Email:	ashley.giovengo@wescominc.com	Due Date:	08/13/24	17:00 (4 day TAT)		
Chain a	Custody (COC)					
	f Custody (COC)		Yes			
	the sample ID match the COC? the number of samples per sampling site location ma	tch the COC				
	samples dropped off by client or carrier?	ion the Coc	Yes Yes	Ci Ci		
	ne COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes	Carrier: Courier		
	all samples received within holding time?	sted analyses:	Yes			
J. WOIC	Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi		103		Comment	s/Resolution
	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes <u>C</u>			
Sample	Container					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contai		Yes			
Field La	· · ·					
•	e field sample labels filled out with the minimum info	ormation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were p	reserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved r	netals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborate	ory?	No			
	a subcontract laboratory specified by the client and i	-	NA	Subcontract Lab: NA		
Client l	nstruction					
<u>Chene i</u>	instruction .					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E408072

Job Number: 01058-0007

Received: 8/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/14/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E408072

Date Received: 8/8/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/8/2024 8:30:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS13 - 1'	6
FS14 - 2'	7
FS15 - 1'	8
FS16 - 2'	9
FS17 - 1'	10
FS18 - 1'	11
FS19 - 1'	12
FS20 - 1'	13
FS21 - 1'	14
FS22 - 1'	15
FS23 - 1'	16
FS24 - 1'	17
FS25 - 1'	18
FS26 - 1'	19
FS27 - 1'	20
FS28 - 1'	21
QC Summary Data	22
QC - Volatile Organic Compounds by EPA8260B	22
QC - Nonhalogenated Organics by EPA 8015D - GRO	23
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	24

Table of Contents (continued)

QC - Anions by EPA 300.0/9056A	25
Definitions and Notes	26
Chain of Custody etc.	27

Sample Summary

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo08/14/24 09:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS13 - 1'	E408072-01A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS14 - 2'	E408072-02A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS15 - 1'	E408072-03A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS16 - 2'	E408072-04A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS17 - 1'	E408072-05A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS18 - 1'	E408072-06A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS19 - 1'	E408072-07A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS20 - 1'	E408072-08A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS21 - 1'	E408072-09A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS22 - 1'	E408072-10A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS23 - 1'	E408072-11A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS24 - 1'	E408072-12A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS25 - 1'	E408072-13A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS26 - 1'	E408072-14A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS27 - 1'	E408072-15A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS28 - 1'	E408072-16A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS13 - 1' E408072-01

Result	Reporting Limit	Dilu	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	•		Batch: 2432098
			1	08/08/24	08/12/24	
			1	08/08/24	08/12/24	
ND	0.0250		1	08/08/24	08/12/24	
ND	0.0250		1	08/08/24	08/12/24	
ND	0.0500		1	08/08/24	08/12/24	
ND	0.0250		1	08/08/24	08/12/24	
	99.0 %	70-130		08/08/24	08/12/24	
	98.8 %	70-130		08/08/24	08/12/24	
	106 %	70-130		08/08/24	08/12/24	
mg/kg	mg/kg		Analyst:	IY		Batch: 2432098
ND	20.0		1	08/08/24	08/12/24	
	99.0 %	70-130		08/08/24	08/12/24	
	98.8 %	70-130		08/08/24	08/12/24	
	106 %	70-130		08/08/24	08/12/24	
mg/kg	mg/kg		Analyst:	KM		Batch: 2432085
ND	25.0		1	08/08/24	08/09/24	
ND	50.0		1	08/08/24	08/09/24	
	106 %	50-200		08/08/24	08/09/24	
mg/kg	mg/kg		Analyst:	DT		Batch: 2432111
229	20.0	_	1	08/08/24	08/09/24	<u> </u>
	mg/kg ND Mg/kg ND Mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 98.8 % 106 % 106 % mg/kg mg/kg ND 20.0 99.0 % 98.8 % 106 % 106 % mg/kg mg/kg ND 25.0 ND 50.0 106 % mg/kg	Result Limit Dile mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 PR 70-130 99.0 % 70-130 106 % 70-130 mg/kg mg/kg ND 20.0 99.0 % 70-130 98.8 % 70-130 106 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 99.0 % 70-130 98.8 % 70-130 mg/kg mg/kg Analyst: ND 20.0 1 99.0 % 70-130 1 99.0 % 70-130 1 mg/kg mg/kg Analyst: ND 25.0 1 ND 50.0 1 106 % 50-200 mg/kg mg/kg Analyst:	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 08/08/24 ND 0.0250 1 08/08/24 ND 0.0250 1 08/08/24 ND 0.0250 1 08/08/24 ND 0.0500 1 08/08/24 ND 0.0250 1 08/08/24 ND 0.0250 1 08/08/24 99.0 % 70-130 08/08/24 98.8 % 70-130 08/08/24 106 % 70-130 08/08/24 99.0 % 70-130 08/08/24 99.0 % 70-130 08/08/24 99.0 % 70-130 08/08/24 106 % 70-130 08/08/24 106 % 70-130 08/08/24 106 % 70-130 08/08/24 ND 25.0 1 08/08/24 ND 50.0 1 08/08/24 ND	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 08/08/24 08/12/24 ND 0.0500 1 08/08/24 08/12/24 ND 0.0250 1 08/08/24 08/12/24 ND 0.0250 1 08/08/24 08/12/24 99.0 % 70-130 08/08/24 08/12/24 98.8 % 70-130 08/08/24 08/12/24 mg/kg mg/kg Analyst: IX ND 08/12/24 99.0 % 70-130 08/08/24 08/12/24 98.8 % 70-130 08/08/24 08/12/24 98.8 % 70-130 08/08/24 08/12/24 106 % 70-130 08/08/24 08/12/24



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS14 - 2' E408072-02

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2432098
Benzene	ND	0.0250	:	1	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250		1	08/08/24	08/12/24	
Toluene	ND	0.0250		1	08/08/24	08/12/24	
o-Xylene	ND	0.0250		1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500		1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250		1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		98.1 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		104 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		98.1 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		104 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2432085
Diesel Range Organics (C10-C28)	181	25.0		1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/08/24	08/09/24	
Surrogate: n-Nonane		101 %	50-200		08/08/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2432111
Chloride	156	20.0		1	08/08/24	08/09/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS15 - 1' E408072-03

	_	Reporting	_		_		
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2432098
Benzene	ND	0.0250	1	I	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	1	08/08/24	08/12/24	
Toluene	0.0415	0.0250	1	1	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		99.5 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY	-		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		99.5 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	<u>.</u>	Analyst: Kl	М		Batch: 2432085
Diesel Range Organics (C10-C28)	2580	25.0	1	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	108	50.0	1	1	08/08/24	08/09/24	
Surrogate: n-Nonane		108 %	50-200		08/08/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: D	Γ		Batch: 2432111
Chloride	559	20.0	1	1	08/08/24	08/09/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS16 - 2' E408072-04

		E400072-04					
Analyte	Result	Reporting Limit	Dilu	ution	Prepared	Analyzed	Notes
Analyte	Resuit	LIIIIt	Dilu	шоп	Frepared	Anaryzeu	notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2432098
Benzene	ND	0.0250	1	1	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	1	08/08/24	08/12/24	
Toluene	ND	0.0250	1	1	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		98.7 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		98.7 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432085
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/08/24	08/09/24	
Surrogate: n-Nonane		109 %	50-200		08/08/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432111
Chloride	301	20.0	1	1	08/08/24	08/09/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS17 - 1' E408072-05

		E400072-03				
Aughto	Result	Reporting Limit	Dilu	tion D	and Angles-1	Notes
Analyte	Resuit	Limit	Dilu	tion Prepar	red Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY		Batch: 2432098
Benzene	ND	0.0250	1	08/08/	/24 08/12/24	
Ethylbenzene	ND	0.0250	1	08/08/	/24 08/12/24	
Toluene	ND	0.0250	1	08/08/	/24 08/12/24	
o-Xylene	ND	0.0250	1	08/08/	/24 08/12/24	
p,m-Xylene	ND	0.0500	1	08/08/	/24 08/12/24	
Total Xylenes	ND	0.0250	1	08/08/	/24 08/12/24	
Surrogate: Bromofluorobenzene		96.4 %	70-130	08/08/	/24 08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/08/	/24 08/12/24	
Surrogate: Toluene-d8		105 %	70-130	08/08/	/24 08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/	/24 08/12/24	
Surrogate: Bromofluorobenzene		96.4 %	70-130	08/08/	/24 08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/08/	/24 08/12/24	
Surrogate: Toluene-d8		105 %	70-130	08/08/	/24 08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM		Batch: 2432085
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/	/24 08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/	/24 08/09/24	
Surrogate: n-Nonane		111 %	50-200	08/08/	/24 08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: DT		Batch: 2432111
Chloride	305	20.0	1	08/08/	/24 08/09/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS18 - 1' E408072-06

		E400072-00				
Austra	Dl/	Reporting	Dilu	tion D	and Amelon I	Notes
Analyte	Result	Limit	Dilu	tion Prepar	red Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY		Batch: 2432098
Benzene	ND	0.0250	1	08/08/	/24 08/12/24	
Ethylbenzene	ND	0.0250	1	08/08/	/24 08/12/24	
Toluene	ND	0.0250	1	08/08/	/24 08/12/24	
o-Xylene	ND	0.0250	1	08/08/	/24 08/12/24	
p,m-Xylene	ND	0.0500	1	08/08/	/24 08/12/24	
Total Xylenes	ND	0.0250	1	08/08/	/24 08/12/24	
Surrogate: Bromofluorobenzene		96.4 %	70-130	08/08/	/24 08/12/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/08/	/24 08/12/24	
Surrogate: Toluene-d8		105 %	70-130	08/08/	/24 08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/	/24 08/12/24	
Surrogate: Bromofluorobenzene		96.4 %	70-130	08/08/	/24 08/12/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/08/	/24 08/12/24	
Surrogate: Toluene-d8		105 %	70-130	08/08/	/24 08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: KM		Batch: 2432085
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/	/24 08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/	/24 08/09/24	
Surrogate: n-Nonane		110 %	50-200	08/08/	/24 08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: DT		Batch: 2432111
Chloride	171	20.0	1	08/08/	/24 08/09/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS19 - 1' E408072-07

		E400072-07					
Andre	Dl/	Reporting	D.I.	4:	D	A	Nister
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2432098
Benzene	ND	0.0250	1		08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1		08/08/24	08/12/24	
Toluene	ND	0.0250	1		08/08/24	08/12/24	
o-Xylene	ND	0.0250	1		08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1		08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1		08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		97.2 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		106 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		97.2 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		106 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432085
Diesel Range Organics (C10-C28)	ND	25.0	1		08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/08/24	08/09/24	
Surrogate: n-Nonane		108 %	50-200		08/08/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432111
Chloride	285	20.0	1		08/08/24	08/09/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS20 - 1' E408072-08

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2432098
Benzene	ND	0.0250	1	1	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	1	08/08/24	08/12/24	
Toluene	0.0370	0.0250	1	1	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		97.1 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		104 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY				Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		97.1 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		104 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432085
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/08/24	08/09/24	
Surrogate: n-Nonane		101 %	50-200		08/08/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432111
Chloride	291	20.0	1		08/08/24	08/09/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS21 - 1' E408072-09

Analyte	Result	Reporting Limit	Dilu	tion D	repared	Analyzed	Notes
Лиаус	Kesuit	Liillit			герагец	Anaryzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2432098
Benzene	ND	0.0250	1	0	8/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	0	8/08/24	08/12/24	
Toluene	ND	0.0250	1	0	8/08/24	08/12/24	
o-Xylene	ND	0.0250	1	0	8/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	0	8/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	0	8/08/24	08/12/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130	0	8/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	0	8/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130	0	8/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	0	8/08/24	08/12/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130	0	8/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	0	8/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130	0	8/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM			Batch: 2432085
Diesel Range Organics (C10-C28)	ND	25.0	1	. 0	8/08/24	08/09/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	0	8/08/24	08/09/24	
Surrogate: n-Nonane		105 %	50-200	0	8/08/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: DT			Batch: 2432111
Chloride	216	20.0	1	0	8/08/24	08/09/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS22 - 1' E408072-10

		12400072-10					
Aughto	Result	Reporting Limit	Dilu	tion	Duomonod	Amalyzzad	Notes
Analyte	Resuit	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY			Batch: 2432098
Benzene	ND	0.0250	1	l	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	l	08/08/24	08/12/24	
Toluene	ND	0.0250	1	l	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	l	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	l	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	l	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		98.8 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		98.8 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KN	Л		Batch: 2432085
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/08/24	08/09/24	
Surrogate: n-Nonane		99.5 %	50-200		08/08/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: DT			Batch: 2432111
Chloride	214	20.0	1	l	08/08/24	08/09/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS23 - 1' E408072-11

		E400072-11					
Aughto	Result	Reporting Limit		ıtion	Duamanad	Analyzad	Notes
Analyte	Resuit	Limit	Dill	luon	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2432098
Benzene	ND	0.0250	1	1	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	1	08/08/24	08/12/24	
Toluene	ND	0.0250	1	1	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		98.1 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		98.1 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432085
Diesel Range Organics (C10-C28)	34.2	25.0	1	1	08/08/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/08/24	08/10/24	
Surrogate: n-Nonane		97.8 %	50-200		08/08/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432111
Chloride	293	20.0	1	1	08/08/24	08/09/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS24 - 1' E408072-12

		E400072-12					
Analyte	Result	Reporting Limit	Dilu	ıti an	Duamanad	Amalyzad	Notes
Analyte	Result	Limit	Dilu	luon	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2432098
Benzene	ND	0.0250	1	1	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	1	08/08/24	08/12/24	
Toluene	ND	0.0250	1	1	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		106 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		106 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432085
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/08/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/08/24	08/10/24	
Surrogate: n-Nonane		109 %	50-200		08/08/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432111
Chloride	238	20.0	1	1	08/08/24	08/09/24	·



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS25 - 1' E408072-13

		2.00072 10				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: IY	<u> </u>	Batch: 2432098
Benzene	ND	0.0250	1	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/12/24	
Toluene	ND	0.0250	1	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		96.7 %	70-130	08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130	08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		96.7 %	70-130	08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130	08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2432085
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/24	08/10/24	
Surrogate: n-Nonane		103 %	50-200	08/08/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2432111
Chloride	273	20.0	1	08/08/24	08/09/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS26 - 1' E408072-14

	_	Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2432098
Benzene	ND	0.0250	1	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/12/24	
Toluene	ND	0.0250	1	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		95.9 %	70-130	08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/08/24	08/12/24	
Surrogate: Toluene-d8		104 %	70-130	08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: IY		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		95.9 %	70-130	08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/08/24	08/12/24	
Surrogate: Toluene-d8		104 %	70-130	08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: KM		Batch: 2432085
Diesel Range Organics (C10-C28)	44.6	25.0	1	08/08/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/24	08/10/24	
Surrogate: n-Nonane		110 %	50-200	08/08/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: DT		Batch: 2432111
Chloride	272	20.0	1	08/08/24	08/09/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS27 - 1' E408072-15

		1100072 10					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY				Batch: 2432098
Benzene	ND	0.0250		1	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250		1	08/08/24	08/12/24	
Toluene	ND	0.0250		1	08/08/24	08/12/24	
o-Xylene	ND	0.0250		1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500		1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250		1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		96.3 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		96.3 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2432085
Diesel Range Organics (C10-C28)	59.1	25.0		1	08/08/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/08/24	08/10/24	
Surrogate: n-Nonane		108 %	50-200		08/08/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2432111
Chloride	206	20.0		1	08/08/24	08/09/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

FS28 - 1' E408072-16

		12400072-10					
Austra	Dl/	Reporting		4:	D 1	A a laa . I	N
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY	7		Batch: 2432098
Benzene	ND	0.0250	1	l	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	l	08/08/24	08/12/24	
Toluene	ND	0.0250	1	I	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	I	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	I	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	l	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		95.4 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY	7		Batch: 2432098
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		95.4 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8		105 %	70-130		08/08/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	М		Batch: 2432085
Diesel Range Organics (C10-C28)	68.0	25.0	1	1	08/08/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	I	08/08/24	08/10/24	
Surrogate: n-Nonane		110 %	50-200		08/08/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	ı	Analyst: D	T		Batch: 2432111
Chloride	272	20.0	1	l	08/08/24	08/09/24	

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

QC Summary Data

Devon Energy - Carlsbad Spud Muffin 31 30 334H Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 8/14/2024 9:19:18AM Volatile Organic Compounds by EPA 8260B Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2432098-BLK1) Prepared: 08/08/24 Analyzed: 08/12/24 ND 0.0250 Ethylbenzene ND 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.484 0.500 96.8 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 0.500 100 70-130 0.500 104 70-130 Surrogate: Toluene-d8 0.518 LCS (2432098-BS1) Prepared: 08/08/24 Analyzed: 08/12/24 2.27 0.0250 2.50 90.7 70-130 Benzene 2.32 2.50 92.9 70-130 0.0250 Ethylbenzene 2.34 0.0250 2.50 93.6 70-130 2.24 2.50 89.6 70-130 o-Xylene 0.0250 4.53 5.00 90.6 70-130 p,m-Xylene 0.0500 6.77 0.0250 7.50 90.3 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.489 0.500 97.7 70-130 0.500 97.3 70-130 Surrogate: 1,2-Dichloroethane-d4 0.487 Surrogate: Toluene-d8 0.500 70-130 0.528 Matrix Spike (2432098-MS1) Source: E408072-08 Prepared: 08/08/24 Analyzed: 08/12/24 2.37 48-131 0.0250 2.50 ND 94.6

Matrix Spike Dup (2432098-MSD1)				Source:	E408072-	08	Prepared: 08/08/24 Analyzed: 08/12/24		
Benzene	2.32	0.0250	2.50	ND	93.0	48-131	1.75	23	
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135	2.97	27	
Toluene	2.40	0.0250	2.50	0.0370	94.5	48-130	2.57	24	
o-Xylene	2.32	0.0250	2.50	ND	92.7	43-135	0.688	27	
p,m-Xylene	4.66	0.0500	5.00	ND	93.2	43-135	1.10	27	
Total Xylenes	6.98	0.0250	7.50	ND	93.1	43-135	0.962	27	
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

ND

0.0370

ND

ND

ND

97.0

97.0

93.4

94.3

94.0

99.7

101

104

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

2.42

2.46

2.33

4.71

7.05

0.499

0.504

0.518

0.0250

0.0250

0.0250

0.0500

0.0250

Analyst: IY

QC Summary Data

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

Nonhalogenated	Organics	by EPA	8015D - GRO
Tionnaiogenatea	O'Sumes	~j ==1	OUICD GILO

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

	Result	LIIIII	Level	Result	Rec	LIIIIIIS	KPD	Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2432098-BLK1)							Prepared: 08	8/08/24 A	nalyzed: 08/12/24	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130				
Surrogate: Toluene-d8	0.518		0.500		104	70-130				
LCS (2432098-BS2)							Prepared: 08	8/08/24 A	nalyzed: 08/12/24	
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.0	70-130		·	·	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130				
Surrogate: Toluene-d8	0.520		0.500		104	70-130				
Matrix Spike (2432098-MS2)	ntrix Spike (2432098-MS2)			Source: E408072-08			Prepared: 08/08/24 Analyzed: 08/12/24			
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	103	70-130				
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130				
Surrogate: Toluene-d8	0.529		0.500		106	70-130				
Surrogate: Toluene-d8 Matrix Spike Dup (2432098-MSD2)	0.529		0.500	Source:	106 E408072- 0		Prepared: 08	3/08/24 Ai	nalyzed: 08/12/24	
	0.529 48.7	20.0	50.0	Source:			Prepared: 08	3/08/24 Ai	nalyzed: 08/12/24	
Matrix Spike Dup (2432098-MSD2)		20.0			E408072-0)8			nalyzed: 08/12/24	
Matrix Spike Dup (2432098-MSD2) Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		E408072- 0	70-130			nalyzed: 08/12/24	



QC Summary Data

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo8/14/20249:19:18AM

Artesia NM, 88210		Project Manage	r: As	sniey Gioveng	go			8	/14/2024 9:19:18AF	
	Nonhalogenated Organics by EPA 8015D - DRO/ORO							Analyst: KM		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2432085-BLK1)							Prepared: 0	8/08/24 An	alyzed: 08/09/24	
Diesel Range Organics (C10-C28)	ND	25.0								
Dil Range Organics (C28-C36)	ND	50.0								
urrogate: n-Nonane	51.8		50.0		104	50-200				
LCS (2432085-BS1)							Prepared: 0	8/08/24 An	alyzed: 08/09/24	
Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132				
urrogate: n-Nonane	56.1		50.0		112	50-200				
Matrix Spike (2432085-MS1)				Source: E408072-08			Prepared: 08/08/24 Analyzed: 08/09/24			
Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	38-132				
urrogate: n-Nonane	56.3		50.0		113	50-200				
Matrix Spike Dup (2432085-MSD1)	85-MSD1) Source: E408072-08		08	Prepared: 0	8/08/24 An	alyzed: 08/09/24				
Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132	3.51	20		
hurrogate: n-Nonane	52.8		50.0		106	50-200				



Chloride

Chloride

Matrix Spike Dup (2432111-MSD1)

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Spud Muffin 31 30 334H Project Number: 01058-0007 Project Manager: Ashley Giovengo					Reported: 8/14/2024 9:19:18AM				
		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		
Blank (2432111-BLK1)	Prepared: 08/08/24 Analyzed: 08								alyzed: 08/09/24		
Chloride	ND	20.0									
LCS (2432111-BS1)							Prepared: 0	8/08/24 An	alyzed: 08/09/24		
Chloride	249	20.0	250		99.8	90-110					
Matrix Spike (2432111-MS1)				Source: E408072-03			Prepared: 0	8/08/24 An	alyzed: 08/09/24		

250

250

20.0

20.0

559

559

104

115

Source: E408072-03

80-120

80-120

3.22

Prepared: 08/08/24 Analyzed: 08/09/24

20

820

847

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:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/14/24 09:19

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.



						Chai	n of Cu	stody													Page	of <u>7</u>
J - 100	Clier	nt Inform	nation	Maria San		Invoice Informat	ion			N P	Lab	Use	Only				TA	T		State	e	
ient: D	evon				C	Company: Devon			Lab W	/O#		Jo	b Nu	mber		1D	Allere	3D S	Std	NM CO UT	TX	
oject:	Spud M	uffiin 31	-30 334	Н	Ā	ddress: 205 E Bender Road	d #150		E40	80	772	. 0	105	8-0	Foc			×		x		
oject N	Manager: Asl	nley Giov	engo			ity, State, Zip: Hobbs NM,	88240			FIE		Contract of the last										
	3122 Natio		The second second	17/1	<u>P</u>	hone: (575)748-1838						Α	naly	is an	d Me	thod				EPA Progra	am	
	e, Zip: Carls		88220			Email: dale.woodall@dvn.	.com													SDWA CWA	RCRA	
	575-988-005				M	iscellaneous: Dale Woodall																
iail: a	giovengo@e	nsolum.c	om				-	- let-		8015	8015				1				_	Compliance Y	or N	
- 1				Sam	ple Informat	tion					by 8	177	200	2	×	stals			1	PWSID#		
ime			No. of	Jaili	pie iliioilila		Ь	H 15	h	ORO	DRO	oy &	78 %	0	1005	8 M				Remarks		
npled	Date Sampled	Matrix	No. of Containers			Sample ID	Fiel	Num Fi	ber	DRO/ORO	GRO/DRO by	BIEK BY 802	VOC by 8260	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Kellidika		
0:35	8/6/2024	Soil	1			FS13 - 1'		1						X								
3:09	8/6/2024	Soil	1			FS14- 2'		3	4					×								
1:03	8/6/2024	Soil	1			FS15 - 1'		3						х								
3:11	8/6/2024	Soil	1			FS16 - 2'		4						×								
1:04	8/6/2024	Soil	1			FS17 - 1'		5						×		P						
4:05	8/6/2024	Soil	1			FS18 - 1'		6						×						E PER PER PER PER PER PER PER PER PER PE		
4:06	8/6/2024	Soil	1			FS19 - 1'		-)					×								
1:09	8/6/2024	Soil	1			FS20 - 1'		8	3					×								
4:10	8/6/2024	Soil	1			FS21 - 1'		C	1					,								8/13
4:11	8/6/2024	5	1			FS22 - 1'	3.3	1	0	4				7	(Per A. Gior	for BE	DOC.
						n, agiovengo@ensolum.co													rsolu	m.com		
pled by	:_Cole Burton		d authentic	ity of this samp	ole. I am aware t	hat tampering with or intentionally m	-			date o	r time o	f collec	ction is	consid	ered fra	ud and	l may b	e groun	ds for I	egal action.		
-	ed by: (Signatu	+-	Da	te 3/1/2A	Time 7=21	Received by: (Signature)	rales o	87.2	4	ime	121			san		received				t be received on ice the datemp above 0 but less that		
Vie	ed by: (Signatu	ongal	Da	-7-24	Time 1550	Received by: (Signature)) 7-2	Ti	ime 1710	100				ceive		ice:		b Use	e Only		
-	led by: (Signatu	re)	Da 8	te 2-8-24	10012	Received by: (Signature)		8-8-6	CO. 16	ime	30			TI				<u>T2</u>		<u>T3</u>		
nquish	ed by: (Signatu	re)	Da		Time	Received by: (Signature)	D	ate		ime				A	/G Te	mp °(4					
nle Mat	trix: S - Soil, Sd - S	olid, Sg - Slu	idge, A - Ac	ueous, O - Oth	er		7	ontaine	Type:	9-0	lass r	- no	v/pla					1 - VO	4			

enviroteches

enviroteches

enviroteches

-
- 2
10
-
-
0
=
~
_
100
-
10
-
-
- 2
N. 5
- 22
- 0
- (
-AN
-
- 40
4
-
N.
N
4/
-
. 4
N.
-
- 9

Client Information						Invoice Information					Lab	Jse O	nly		1	TAT				State		
Client: D						Company: Devon		L	ab W	/0#		Job	Num	ber	-	1D	2D	3D S	td	NM CO UT TX	X	
Project:		luffiin 31-				Address: 205 E Bender Road #1		E	=40	180	72	01	058	3-00	400			X		X		
	Manager: As					City, State, Zip: Hobbs NM, 882	40	2														
Control of the Contro	3122 Natio			-		Phone: (575)748-1838			16			An	alysis	and	Met	hod		Tre .		EPA Program		
a brown to the	te, Zip: Carls		88220			Email: dale.woodall@dvn.con	n				J.									SDWA CWA R	RCRA	
(in the last of th	575-988-005				_ N	liscellaneous: Dale Woodall											-					
Email: a	giovengo@e	nsolum.c	om				-			8015	8015								-		rN	
-			No. 1	Consul	- 1		-				by 81	9	0.00	Σ	×	tals				PWSID#		
				Sample	e Informa	ition	- h	1 1-1		ORO	SRO S	y 82	de 30	2	- 500	8 Me				B-w-da	- 1	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb	per	DRO/ORO by	GRO/DRO by	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks		
14:12	8/6/2024	Soil	1			FS23 - 1'		11						x								
14:15	8/6/2024	Soil	1			FS24 - 1'		12						х								
14:25	8/6/2024	Soil	1			FS25 - 1'		13						x								
14:21	8/6/2024	Soil	1			FS26 - 1'		14						x						A THE STREET		
14:20	8/6/2024	Soil	1			FS27 - 1'		15						x								
14:16	8/6/2024	Soil	1			FS28 - 1'		16						х								
			PE-S						3											RETAINS		
Addition	nal Instruction	ons: Ple	ase CC: c	burton@en	solum.co	m, agiovengo@ensolum.com, c	lale.wo	odall@	dvn	.com	, chai	nilton	@en	solur	n.co	m, ie	strell	a@en	solu	ım.com		
		e validity and	d authenticit	y of this sample.	I am aware	that tampering with or intentionally mislabe	eling the sa	mple loca	ation,	date or	time o	collect	on is co	nsider	ed fra	ud and	may be	ground	s for l	legal action.		
Charles produced and the con-	y: _Cole Burton_ ned by: (Signatu	re)	Date	Тт	ime	Received by: (Signature)	Date		1	Time	-		200	Samo	les regi	uiring th	ermal	reservativ	n mus	st be received on ice the day the	ev are	
	DEA			17/24	7:21	Michelle Gonzal	×.	7-24	2.	67	21			1000000						temp above 0 but less than 6 °C	1000	
	red by (Signature)		Date	Ti	1550	Received by: (Signature)	Date		1	Time 7/0					nuent o	d on	ice.	Lat		e Only		
Relinquish	ned by: (Signatu	ire)	Date	The second secon	ime (X)12	Received by: (Signature)	Date		7	08				T1		3 011		_		<u>T3</u>	7	
Relinquish	ned by: (Signatu	ire)	Date	T	ime	Received by: (Signature)	Date			Time				AVO	G Ter	np °C			111211			
The state of the s	trix: S - Soil, Sd -			The second second				tainer						ic, ag	- am	ber g	lass, v					
Note: Sam	nples are discar	ded 14 days	s after resu	lts are reporte	d unless ot	her arrangements are made. Hazardou	s samples	will be	retur	ned to	client	or disp	osed c	f at th	ne clie	nt exp	ense.	The rep	ort fo	or the analysis of the abo	ove	

(3

enviroteches environment environm

,	
_	-
_	~
	0
	~
	79
	6
	~
	6
	2
	-
	-
	3
	~
	-
	0
	=
	-
	9
	~
	-24
	\sim
	0
	~~
	4
	S
	Ch
	71
	4
	10
	1
	୍ଦ
	-
	-
	-

Client Information					Invoice Information					La	b Us	Lab Use Only								State			
Client: [Devon					ompany: Devon		La	ab W	VO#			Job	Num	ber	-	1D	2D	3D S	td	NM	CO UT	TX
Project:	Spud M	luffiin 31	-30 334F		A	ddress: 205 E Bender Road #1	50	E	=40	8c	07	2	010	158	-00	FO			Х		x		
Project N	Manager: Asl	hley Giov	engo		<u>c</u>	ity, State, Zip: Hobbs NM, 882	40																
Address	: 3122 Natio	nal Parks	Hwy		Pł	none: (575)748-1838							Ana	lysis	and	Met	hod				EF	A Progra	am
City, Sta	te, Zip: Carls	bad NM,	88220		E	mail: dale.woodall@dvn.con	7														SDWA	CWA	RCRA
	575-988-005					scellaneous: Dale Woodall																	
	giovengo@e		om			Section Court Falls 11 Court				8015	3015										Complian PWSID #	ce Y	or N
				Sam	ple Informat	ion				yq C	GRO/DRO by 8015	3021	260	Chloride 300.0	Z	rcea 1005 - TX	RCRA 8 Metals				r WSID #		
Time	202000		No. of				ь :	Lab		/OR(/DR(by	by 8	ide	- 20	100	18					Remarks	
Sampled	Date Sampled	Matrix	Containers			Sample ID	Field	Numb	er	DRO/ORO by	GRO,	BTEX by 8021	VOC by 8260	Chlor	BGDOC - NM	TCEQ	RCRA					X 120 2 100 100	
10:35	8/6/2024	Soil	1			FS13 - 1'		1							х								
13:09	8/6/2024	Soil	1			FS14- 2'		2							х								
11:03	8/6/2024	Soil	1			FS15 - 1'		3							х								
13:11	8/6/2024	Soil	1			FS16 - 2'	W.	4							х								
14:04	8/6/2024	Soil	1			FS17 - 1'		5							х								
14:05	8/6/2024	Soil	1			FS18 - 1'	3	6							х								
14:06	8/6/2024	Soil	1			FS19 - 1'	The	7							x								
14:09	8/6/2024	Soil	1			FS20 - 1'		8							x								
14:10	8/6/2024	Soil	1			FS21 - 1'		9							х								
14:11	8/6/2024					FS22 - 1'		10)														
				10000		n, agiovengo@ensolum.com, c		odall@	dvn						22								
	pler), attest to the y: _Cole Burton	e validity and	authenticit	y of this sam	ple. I am aware th	at tampering with or intentionally mislabe		ample loca	ation, i	date d	or time	e of co	llectio	n is co	nsider	ed frau	id and	may b	e ground	is for i	egal action.		
~	ned by: (Signatur	X-	Date	17/2A	Time 7:21	Received by: (Signature)	es B	7.24	7	Time	721											on ice the da but less that	
Relinguish	ned by: (Signatu helle G ned by: (Signatu	re) ongali	es S-	7.24	Time 1550	Received by: (Signature) Received by: (Signature) Received by: (Signature)	Date	7-29	/	Time 171	0				Rec	eived	d on i	ce:	Lab		Only		
Relinquish	ned by: (Signatur	re)	Date	8-24	0012	Received by: (Signature)	8	8-20		Time 08	30)			<u>T1</u>				<u>T2</u>			<u>T3</u>	
Relinquish	ned by: (Signatu	re)	Date		Time	Received by: (Signature)	Date	2	T	Time					AVO	i Ten	np °C	4					
Sample Ma	trix: S - Soil, Sd - S	olid, Sg - Slu	dge, A - Aqu	eous, O - Oth	ner		Cor	ntainer 1	Type:	: 2 - 1	glass	D - I	ooly/	plasti	c. ag	- am	oer gl	ass. V	- VOA				



=	-
	6
	6
	7
	6
	0
	-
	3
	-
	0
	$\tilde{}$
	7.1
	$\overline{}$
	• •
	5
	~
	-
	N
	1
	- 63
	\sim
	7
	3:54
	11
	ÁI
	4
	1.
	1,7
	10
	-
	~
	Z

Client Information				Invoice Information				L	ab U	se Or	ily				TA	\T	State				
Client: D)evon					ompany: Devon		L	ab W	O#	02	Job	Num	ber		1D	2D	3D Sto	NM	CO UT	TX
Project:	Spud M	uffiin 31	-30 334H		Ac	ddress: 205 E Bender Road #	150		40	80:	72	010	58	3-00	400			х	x		
Project N	/lanager: Asl	nley Giov	engo		Cit	ty, State, Zip: Hobbs NM, 88	240														
Address:	3122 Natio	nal Parks	Hwy		Ph	one: (575)748-1838						Ana	lysis	and	Met	hod			EF	A Progr	am
City, Stat	e, Zip: Carls	bad NM,	88220		E	mail: dale.woodall@dvn.co	m												SDWA	CWA	RCRA
Phone:	575-988-005	5			Mis	cellaneous: Dale Woodall		1													
Email: a	giovengo@e	nsolum.c	om						u	0 0					Y 1				Complian	ce Y	or N
							- 1		2015	8015	-	1	0.	2	_	2			PWSID#		
				Samp	le Informati	on			er a	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	rcea 1005 - TX	RCRA 8 Metals					
Time	D. C. 1.1		No. of			Seconds ID	D	Lab	90	D'OR	x by	þ	ride	00	100	A 8				Remarks	s
Sampled	Date Sampled	Matrix	Containers			Sample ID	말	Lab Numb	er g	GRO	BTE	000	Chlo	BGD	TCEC	RCR					
14:12	8/6/2024	Soil	1			FS23 - 1'		11						х							
14:15	8/6/2024	Soil	1			FS24 - 1'		12						х							
14:25	8/6/2024	Soil	1			FS25 - 1'		13						х							
14:21	8/6/2024	Soil	1			FS26 - 1'		14						х							
14:20	8/6/2024	Soil	1			FS27 - 1'		15						x							
14:16	8/6/2024	Soil	1			FS28 - 1'		16						х							
							-		+	+		H									
Additior	al Instructio	ns: Plea	se CC: cb	urton@er	nsolum.com,	, agiovengo@ensolum.com,	dale.wo	odall@	dvn.c	com, c	hami	lton(@ens	olun	n.cor	n, ies	trell	a@ensc	lum.com		
	pler), attest to the	validity and	authenticity o	of this sample	e. I am aware tha	at tampering with or intentionally misla	beling the sa	mple loca	ition, da	ate or tir	ne of co	ollectio	n is cor	nsidere	ed frau	d and	may b	grounds f	or legal action.		
	ed by: (Signatur	re)	Date	1	Time	Received by: (Signature)	Date		Tin	me		As-	= 4	Sampl	es requ	iring the	ermal p	reservation r	nust be received	on ice the d	ay they are
- (DEA			7/24	7:21	100.000	1. 8	7-24	1	572							packed	in ice at an a	vg temp above (but less tha	ın 6°C on
Relinguish	ed by (Signatur	e) A	Date		Time	Received by: (Signature)	Date		Tin	ne	,	1		subser	uent d	avs		Lahl	Ise Only		
Mic	rele Ga	marie	8 7.	7-24	1550	C. L. Par	8	7-11	1	710				Rec	eived	on i	ce.	(Y)/			
Relinguish	ed by (Signatur Melle G ed by: (Signatur	e)	Date	-	Time	Received by: (Signature)	Date	1 -1		me		1		Meci	CIVEL	On	ce.	0			
Com	de 3	Prince	8-8	7-24	2100	2		8-24		183	0			T1				T2		T3	
Relinquish	ed by: (Signatur	re)	Date		Time	Received by: (Signature)	Date		_	me				AVG	i Ten	np °C					
		-tid c- cl-	dan A Anusa	us, O - Other		1	Con	tainar	Typo: r	a alac	c n	noly/	alacti					- VOA	1		

(3



envirotech Inc.

Printed: 8/13/2024 8:39:25AM

Envirotech Analytical Laboratory

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:	08/08/24	08:30	Work O	rder ID:	E408072
Phone:	(505) 382-1211	Date Logged In:	08/07/24		Logged		Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:		17:00 (4 day TAT)	Logged	ш Бу.	Alexa Wieliaels
Dilleit.	usino, igio rongo (grinoscommoiocin	Due Duic.	00/11/21				
Chain of	Custody (COC)						
1. Does th	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location mate	ch the COC	Yes				
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: C	ourier		
4. Was the	COC complete, i.e., signatures, dates/times, reques	ted analyses?	No				
5. Were al	l samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in				C	ommen	ts/Resolution
Commis T	i.e, 15 minute hold time, are not included in this disucssion	on.		ı		<u> </u>	
	urn Around Time (TAT) COC indicate standard TAT, or Exmedited TAT?		Yes		Sample matrix ar	ıd No.	of Containers on
	COC indicate standard TAT, or Expedited TAT?		168		-		from the COC by
Sample C			Voc		-	_	•
	ample cooler received? was cooler received in good condition?		Yes			_	run sample 10 with
•	•		Yes		BGDOC analysis	.	
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No	l			
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	e received w/i 15	Yes				
	risible ice, record the temperature. Actual sample	temperature: 4-0	<u>~</u>				
Sample C							
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?	•	NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain	iers conected?	Yes				
Field Lab							
	field sample labels filled out with the minimum infound ID?	rmation:	Yes				
	ate/Time Collected?		Yes	l			
Co	ollectors name?		No				
Sample P	<u>reservation</u>						
21. Does t	he COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	mple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does t	he sample have more than one phase, i.e., multiphas	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	mples required to get sent to a subcontract laborator	w?	No				
	subcontract laboratory specified by the client and if	•	NA	Subcontract Lab	· N Δ		
	• • •	so who.	1471	Subcontract Lab	. IVA		
Chent in	struction						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E408088

Job Number: 01058-0007

Received: 8/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/14/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E408088

Date Received: 8/9/2024 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/9/2024 6:30:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS29 - 1'	6
FS30 - 1'	7
FS31 - 1'	8
FS32 - 1'	9
FS33 - 1'	10
FS34 - 1'	11
FS35 - 1'	12
FS36 - 1'	13
FS37 - 1'	14
FS38 - 1'	15
FS39 - 1'	16
FS40 - 1'	17
FS41 - 1'	18
FS42 - 1'	19
FS43 - 1'	20
FS44 - 1'	21
FS45 - 1'	22
FS46 - 1'	23
FS47 - 1'	24
FS48 - 1'	25

Table of Contents (continued)

	FS49 - 1'	26
	FS50 - 1'	27
	FS52 - 1'	28
	FS53 - 1'	29
	FS54 - 1'	30
	FS58 - 1'	31
	FS59 - 1'	32
Q	C Summary Data	33
	QC - Volatile Organic Compounds by EPA8260B	33
	QC - Volatile Organics by EPA 8021B	34
	QC - Nonhalogenated Organics by EPA 8015D - GRO	35
	QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	37
	QC - Anions by EPA 300.0/9056A	39
D	efinitions and Notes	41
CI	nain of Custody etc.	42

Sample Summary

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo08/14/24 16:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS29 - 1'	E408088-01A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS30 - 1'	E408088-02A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS31 - 1'	E408088-03A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS32 - 1'	E408088-04A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS33 - 1'	E408088-05A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS34 - 1'	E408088-06A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS35 - 1'	E408088-07A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS36 - 1'	E408088-08A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS37 - 1'	E408088-09A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS38 - 1'	E408088-10A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS39 - 1'	E408088-11A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS40 - 1'	E408088-12A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS41 - 1'	E408088-13A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS42 - 1'	E408088-14A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS43 - 1'	E408088-15A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS44 - 1'	E408088-16A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS45 - 1'	E408088-17A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS46 - 1'	E408088-18A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS47 - 1'	E408088-19A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS48 - 1'	E408088-20A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS49 - 1'	E408088-21A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS50 - 1'	E408088-22A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS52 - 1'	E408088-23A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS53 - 1'	E408088-24A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS54 - 1'	E408088-25A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS58 - 1'	E408088-26A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
FS59 - 1'	E408088-27A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS29 - 1' E408088-01

		E400000-01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	•	1 mary 200	Batch: 2432121
•	ND	0.0250		1	08/09/24	08/12/24	Batch. 2432121
Benzene	ND ND	0.0250		1	08/09/24	08/12/24	
Ethylbenzene	ND ND	0.0250		1	08/09/24	08/12/24	
Toluene	ND ND	0.0250		1	08/09/24	08/12/24	
o-Xylene	ND ND	0.0230		1	08/09/24	08/12/24	
p,m-Xylene	ND ND	0.0300		1	08/09/24	08/12/24	
Total Xylenes	ND			1			
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		08/09/24	08/12/24	
Surrogate: Toluene-d8		99.9 %	70-130		08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		08/09/24	08/12/24	
Surrogate: Toluene-d8		99.9 %	70-130		08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2432132
Diesel Range Organics (C10-C28)	ND	25.0		1	08/09/24	08/11/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/24	08/11/24	
Surrogate: n-Nonane		98.2 %	50-200		08/09/24	08/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2432137
Chloride	221	20.0		1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS30 - 1' E408088-02

D 1						
Kesult	Limit	Dilt	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
ND	0.0250	·	1	08/09/24	08/12/24	
ND	0.0250		1	08/09/24	08/12/24	
ND	0.0250		1	08/09/24	08/12/24	
ND	0.0250		1	08/09/24	08/12/24	
ND	0.0500		1	08/09/24	08/12/24	
ND	0.0250		1	08/09/24	08/12/24	
	101 %	70-130		08/09/24	08/12/24	
	95.6 %	70-130		08/09/24	08/12/24	
	99.2 %	70-130		08/09/24	08/12/24	
mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
ND	20.0		1	08/09/24	08/12/24	
	101 %	70-130		08/09/24	08/12/24	
	95.6 %	70-130		08/09/24	08/12/24	
	99.2 %	70-130		08/09/24	08/12/24	
mg/kg	mg/kg		Analyst:	NV		Batch: 2432132
ND	25.0		1	08/09/24	08/11/24	
ND	50.0		1	08/09/24	08/11/24	
·	94.1 %	50-200		08/09/24	08/11/24	
mg/kg	mg/kg		Analyst:	DT		Batch: 2432137
222	20.0		1	08/09/24	08/10/24	
	ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IOI % 95.6 % 99.2 % mg/kg MD 20.0 101 % 95.6 % 99.2 % mg/kg mg/kg mg/kg ND 25.0 ND 50.0 94.1 % mg/kg mg/kg mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 101 % 70-130 95.6 % 70-130 99.2 % 70-130 mg/kg mg/kg ND 20.0 101 % 70-130 99.2 % 70-130 99.2 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 94.1 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 ND 70-130 99.2 % 99.2 % 70-130 70-130 mg/kg mg/kg Analyst: ND 20.0 1 101 % 70-130 70-130 99.2 % 70-130 70-130 mg/kg mg/kg Analyst: ND 25.0 1 ND 50.0 1 94.1 % 50-200 mg/kg Analyst:	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/09/24 ND 0.0250 1 08/09/24 ND 0.0250 1 08/09/24 ND 0.0500 1 08/09/24 ND 0.0250 1 08/09/24 ND 0.0250 1 08/09/24 95.6 % 70-130 08/09/24 99.2 % 70-130 08/09/24 99.2 % 70-130 08/09/24 99.2 % 70-130 08/09/24 99.2 % 70-130 08/09/24 99.2 % 70-130 08/09/24 99.2 % 70-130 08/09/24 99.2 % 70-130 08/09/24 99.2 % 70-130 08/09/24 99.2 % 70-130 08/09/24 MD 25.0 1 08/09/24 ND 50.0 1 08/09/24 ND	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/09/24 08/12/24 ND 0.0500 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 95.6 % 70-130 08/09/24 08/12/24 99.2 % 70-130 08/09/24 08/12/24 99.2 % 70-130 08/09/24 08/12/24 95.6 % 70-130 08/09/24 08/12/24 95.6 % 70-130 08/09/24 08/12/24 99.2 % 70-130 08/09/24 08/12/24 mg/kg mg/kg Analyst: NV ND 50.0



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS31 - 1' E408088-03

		E400000-03					
Aughto	Result	Reporting Limit	Dilu	ntion.	Duamanad	Analyza	Notes
Analyte	Result	Limit	Dilu	ltion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RI	KS		Batch: 2432121
Benzene	ND	0.0250	1	1	08/09/24	08/12/24	
Ethylbenzene	ND	0.0250	1	1	08/09/24	08/12/24	
Toluene	ND	0.0250	1	1	08/09/24	08/12/24	
o-Xylene	ND	0.0250	1	1	08/09/24	08/12/24	
p,m-Xylene	ND	0.0500	1	1	08/09/24	08/12/24	
Total Xylenes	ND	0.0250	1	1	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		08/09/24	08/12/24	
Surrogate: Toluene-d8		98.6 %	70-130		08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RI	KS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		08/09/24	08/12/24	
Surrogate: Toluene-d8		98.6 %	70-130		08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	V		Batch: 2432132
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/09/24	08/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/09/24	08/11/24	
Surrogate: n-Nonane		91.9 %	50-200		08/09/24	08/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: Di	Γ		Batch: 2432137
Chloride	196	20.0	1	1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS32 - 1' E408088-04

		L-100000-0-1					
Analyte	Result	Reporting Limit	Dilu	tion P	Prepared	Analyzed	Notes
Allaryu	Result	Limit	Dilui	tion 1	Tepareu	Allalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: RKS	\$		Batch: 2432121
Benzene	ND	0.0250	1	. 0	08/09/24	08/12/24	
Ethylbenzene	ND	0.0250	1	. 0	08/09/24	08/12/24	
Toluene	ND	0.0250	1	. 0	08/09/24	08/12/24	
o-Xylene	ND	0.0250	1	. 0	08/09/24	08/12/24	
p,m-Xylene	ND	0.0500	1	. 0	08/09/24	08/12/24	
Total Xylenes	ND	0.0250	1	. 0	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130	0	08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	0	08/09/24	08/12/24	
Surrogate: Toluene-d8		101 %	70-130	0	08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: RKS	\$		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	1	. 0	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130	0	08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	0	08/09/24	08/12/24	
Surrogate: Toluene-d8		101 %	70-130	0	08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: NV			Batch: 2432132
Diesel Range Organics (C10-C28)	ND	25.0	1	0	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	. 0	8/09/24	08/12/24	
Surrogate: n-Nonane		100 %	50-200	0	08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: DT			Batch: 2432137
Chloride	189	20.0	1	0	8/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS33 - 1' E408088-05

	_	Reporting				
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2432121
Benzene	ND	0.0250	1	08/09/24	08/12/24	
Ethylbenzene	ND	0.0250	1	08/09/24	08/12/24	
Toluene	ND	0.0250	1	08/09/24	08/12/24	
o-Xylene	ND	0.0250	1	08/09/24	08/12/24	
p,m-Xylene	ND	0.0500	1	08/09/24	08/12/24	
Total Xylenes	ND	0.0250	1	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	08/09/24	08/12/24	
Surrogate: Toluene-d8		99.4 %	70-130	08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	08/09/24	08/12/24	
Surrogate: Toluene-d8		99.4 %	70-130	08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2432132
Diesel Range Organics (C10-C28)	101	25.0	1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/24	08/12/24	
Surrogate: n-Nonane		105 %	50-200	08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: DT		Batch: 2432137
Chloride	327	20.0	1	08/09/24	08/10/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS34 - 1' E408088-06

		2.000000					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst			Batch: 2432121
Benzene	ND	0.0250		1	08/09/24	08/12/24	<u> </u>
Ethylbenzene	ND	0.0250		1	08/09/24	08/12/24	
Toluene	ND	0.0250		1	08/09/24	08/12/24	
o-Xylene	ND	0.0250		1	08/09/24	08/12/24	
p,m-Xylene	ND	0.0500		1	08/09/24	08/12/24	
Total Xylenes	ND	0.0250		1	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		08/09/24	08/12/24	
Surrogate: Toluene-d8		98.3 %	70-130		08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		08/09/24	08/12/24	
Surrogate: Toluene-d8		98.3 %	70-130		08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2432132
Diesel Range Organics (C10-C28)	122	25.0		1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/24	08/12/24	
Surrogate: n-Nonane		109 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2432137
Chloride	369	20.0		1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS35 - 1' E408088-07

		E400000-07					
Analyte	Result	Reporting Limit	Dilu	ution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilu	111011	1 repared	Analyzeu	roics
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Benzene	ND	0.0250	1	1	08/09/24	08/12/24	
Ethylbenzene	ND	0.0250	1	1	08/09/24	08/12/24	
Toluene	ND	0.0250	1	1	08/09/24	08/12/24	
o-Xylene	ND	0.0250	1	1	08/09/24	08/12/24	
p,m-Xylene	ND	0.0500	1	1	08/09/24	08/12/24	
Total Xylenes	ND	0.0250	1	1	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		08/09/24	08/12/24	
Surrogate: Toluene-d8		98.9 %	70-130		08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		08/09/24	08/12/24	
Surrogate: Toluene-d8		98.9 %	70-130		08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2432132
Diesel Range Organics (C10-C28)	92.5	25.0	1	1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/09/24	08/12/24	
Surrogate: n-Nonane		102 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432137
Chloride	353	20.0	1	1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS36 - 1' E408088-08

	E-100000-00				
Damlt			tion Duc	d Analysis 1	Notes
Resuit	Limit	Dilut	iion Prepare	d Analyzed	Notes
mg/kg	mg/kg	A	Analyst: RKS		Batch: 2432121
ND	0.0250	1	08/09/2	4 08/12/24	
ND	0.0250	1	08/09/2	4 08/12/24	
ND	0.0250	1	08/09/2	4 08/12/24	
ND	0.0250	1	08/09/2	4 08/12/24	
ND	0.0500	1	08/09/2	4 08/12/24	
ND	0.0250	1	08/09/2	4 08/12/24	
	104 %	70-130	08/09/2	08/12/24	
	101 %	70-130	08/09/2	08/12/24	
	98.9 %	70-130	08/09/2	08/12/24	
mg/kg	mg/kg	A	Analyst: RKS		Batch: 2432121
ND	20.0	1	08/09/2	4 08/12/24	
	104 %	70-130	08/09/2	08/12/24	
	101 %	70-130	08/09/2	08/12/24	
	98.9 %	70-130	08/09/2	08/12/24	
mg/kg	mg/kg	A	Analyst: NV		Batch: 2432132
34.4	25.0	1	08/09/2	4 08/12/24	
ND	50.0	1	08/09/2	4 08/12/24	
	101 %	50-200	08/09/2	08/12/24	
mg/kg	mg/kg	A	Analyst: DT		Batch: 2432137
	ND Additional content of the content	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 IO4 % 101 % 98.9 % mg/kg ND 20.0 104 % 101 % 98.9 % mg/kg mg/kg mg/kg Mg/kg 50.0	Reporting Result Limit Dilute mg/kg mg/kg mg/kg ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 104 % 70-130 70-130 98.9 % 70-130 1 mg/kg mg/kg 1 ng/kg 1 1 </td <td>Reporting Result Limit Dilution Prepare mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/09/2 ND 0.0250 1 08/09/2 ND 0.0250 1 08/09/2 ND 0.0500 1 08/09/2 ND 0.0250 1 08/09/2 ND 0.0250 1 08/09/2 104 % 70-130 08/09/2 101 % 70-130 08/09/2 98.9 % 70-130 08/09/2 104 % 70-130 08/09/2 101 % 70-130 08/09/2 101 % 70-130 08/09/2 98.9 % 70-130 08/09/2 104 % 70-130 08/09/2 104 % 70-130 08/09/2 104 % 70-130 08/09/2 104 % 70-130 08/09/2 104 % 70-130 08/09/2 105 %</td> <td>Reporting Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 0.0500 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 70-130 08/09/24 08/12/24 98.9 % 70-130 08/09/24 08/12/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 08/09/24 08/12/24 104 % 70-130 08/09/24 08/12/24 104 % 70-130 08/09/24 08/12/24 104 % 70-130 08/09/24 08/12/24</td>	Reporting Result Limit Dilution Prepare mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/09/2 ND 0.0250 1 08/09/2 ND 0.0250 1 08/09/2 ND 0.0500 1 08/09/2 ND 0.0250 1 08/09/2 ND 0.0250 1 08/09/2 104 % 70-130 08/09/2 101 % 70-130 08/09/2 98.9 % 70-130 08/09/2 104 % 70-130 08/09/2 101 % 70-130 08/09/2 101 % 70-130 08/09/2 98.9 % 70-130 08/09/2 104 % 70-130 08/09/2 104 % 70-130 08/09/2 104 % 70-130 08/09/2 104 % 70-130 08/09/2 104 % 70-130 08/09/2 105 %	Reporting Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 0.0500 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 0.0250 1 08/09/24 08/12/24 ND 70-130 08/09/24 08/12/24 98.9 % 70-130 08/09/24 08/12/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 08/09/24 08/12/24 104 % 70-130 08/09/24 08/12/24 104 % 70-130 08/09/24 08/12/24 104 % 70-130 08/09/24 08/12/24



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS37 - 1' E408088-09

		2.000000					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2432121
Benzene	ND	0.0250		1	08/09/24	08/12/24	Baren, 2 192121
Ethylbenzene	ND	0.0250		1	08/09/24	08/12/24	
Toluene	ND	0.0250		1	08/09/24	08/12/24	
o-Xylene	ND	0.0250		1	08/09/24	08/12/24	
p,m-Xylene	ND	0.0500		1	08/09/24	08/12/24	
Total Xylenes	ND	0.0250		1	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		08/09/24	08/12/24	
Surrogate: Toluene-d8		99.1 %	70-130		08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/24	08/12/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		08/09/24	08/12/24	
Surrogate: Toluene-d8		99.1 %	70-130		08/09/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2432132
Diesel Range Organics (C10-C28)	52.6	25.0		1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/24	08/12/24	
Surrogate: n-Nonane		99.4 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432137
Chloride	104	20.0	_	1	08/09/24	08/10/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS38 - 1' E408088-10

		E100000 10					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	RKS		Batch: 2432121
Benzene	ND	0.0250	1	 l	08/09/24	08/13/24	
Ethylbenzene	ND	0.0250	1	l	08/09/24	08/13/24	
Toluene	ND	0.0250	1	[08/09/24	08/13/24	
o-Xylene	ND	0.0250	1	l	08/09/24	08/13/24	
p,m-Xylene	ND	0.0500	1	l	08/09/24	08/13/24	
Total Xylenes	ND	0.0250	1	1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		97.9 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: 1	RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		97.9 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: 1	NV		Batch: 2432132
Diesel Range Organics (C10-C28)	50.4	25.0	1		08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	08/09/24	08/12/24	
Surrogate: n-Nonane		100 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: 1	DT		Batch: 2432137
Chloride	137	20.0	1	1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS39 - 1' E408088-11

	12-100000-11					
Dogult			tion	Duomonod	Amalyzzad	Notes
Result	Limit	Dilut	tion	Prepared	Anaiyzed	Notes
mg/kg	mg/kg	A	Analyst: RK	S		Batch: 2432121
ND	0.0250	1		08/09/24	08/13/24	
ND	0.0250	1		08/09/24	08/13/24	
ND	0.0250	1		08/09/24	08/13/24	
ND	0.0250	1		08/09/24	08/13/24	
ND	0.0500	1		08/09/24	08/13/24	
ND	0.0250	1		08/09/24	08/13/24	
	99.8 %	70-130		08/09/24	08/13/24	
	97.3 %	70-130		08/09/24	08/13/24	
	97.9 %	70-130		08/09/24	08/13/24	
mg/kg	mg/kg	A	Analyst: RK	S		Batch: 2432121
ND	20.0	1	Į.	08/09/24	08/13/24	
	99.8 %	70-130		08/09/24	08/13/24	
	97.3 %	70-130		08/09/24	08/13/24	
	97.9 %	70-130		08/09/24	08/13/24	
mg/kg	mg/kg	A	Analyst: NV	7		Batch: 2432132
34.1	25.0	1		08/09/24	08/12/24	
ND	50.0	1	Į.	08/09/24	08/12/24	
	103 %	50-200		08/09/24	08/12/24	
mg/kg	mg/kg	A	Analyst: DT	·		Batch: 2432137
	ND mg/kg 34.1	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 99.8 % 97.3 % 97.9 % mg/kg MD 20.0 99.8 % 97.3 % 97.9 % mg/kg mg/kg mg/kg 34.1 25.0 ND 50.0	Reporting Result Limit Dilu mg/kg mg/kg ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 99.8 % 70-130 97.3 % 97.9 % 70-130 97.9 % MB/kg mg/kg mg/kg ND 20.0 1 97.9 % 70-130 97.9 % 70-130 97.9 % 70-130 mg/kg mg/kg 1 MB/kg 103 % 50-200	Reporting Result Limit Dilution mg/kg mg/kg Analyst: RK ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 99.8 % 70-130 97.9 % 70-130 mg/kg mg/kg Analyst: RK ND 20.0 1 99.8 % 70-130 70-130 97.9 % 70-130 70-130 mg/kg mg/kg Analyst: NV 34.1 25.0 1 ND 50.0 1	Reporting Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/09/24 ND 0.0250 1 08/09/24 ND 0.0250 1 08/09/24 ND 0.0500 1 08/09/24 ND 0.0250 1 08/09/24 ND 0.0250 1 08/09/24 99.8 % 70-130 08/09/24 97.9 % 70-130 08/09/24 97.9 % 70-130 08/09/24 97.3 % 70-130 08/09/24 97.3 % 70-130 08/09/24 97.9 % 70-130 08/09/24 97.9 % 70-130 08/09/24 97.9 % 70-130 08/09/24 97.9 % 70-130 08/09/24 97.9 % 70-130 08/09/24 97.9 % 70-130 08/09/24 ND 50.0 1 08/09/24	Reporting Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/09/24 08/13/24 ND 0.0250 1 08/09/24 08/13/24 ND 0.0250 1 08/09/24 08/13/24 ND 0.0500 1 08/09/24 08/13/24 ND 0.0250 1 08/09/24 08/13/24 ND 0.0250 1 08/09/24 08/13/24 99.8 % 70-130 08/09/24 08/13/24 97.3 % 70-130 08/09/24 08/13/24 97.9 % 70-130 08/09/24 08/13/24 97.3 % 70-130 08/09/24 08/13/24 97.9 % 70-130 08/09/24 08/13/24 97.9 % 70-130 08/09/24 08/13/24 97.9 % 70-130 08/09/24 08/13/24 97.9 % 70-130 08/09/24 08/13/24 </td



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

FS40 - 1' E408088-12

		E400000-12					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Anaiyu	Result	Lillit	Dilu	111011	1 repared	Analyzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Benzene	ND	0.0250	1	1	08/09/24	08/13/24	
Ethylbenzene	ND	0.0250	1	1	08/09/24	08/13/24	
Toluene	ND	0.0250	1	1	08/09/24	08/13/24	
o-Xylene	ND	0.0250	1	1	08/09/24	08/13/24	
p,m-Xylene	ND	0.0500	1	1	08/09/24	08/13/24	
Total Xylenes	ND	0.0250	1	1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		98.0 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		98.0 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2432132
Diesel Range Organics (C10-C28)	28.2	25.0	1	1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/09/24	08/12/24	
Surrogate: n-Nonane		103 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432137
Chloride	414	20.0	1	1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS41 - 1' E408088-13

		E400000-13					
Analyte	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
Allaryte	Result	Limit	Diit	шы	Frepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Benzene	ND	0.0250		1	08/09/24	08/13/24	
Ethylbenzene	ND	0.0250		1	08/09/24	08/13/24	
Toluene	ND	0.0250		1	08/09/24	08/13/24	
o-Xylene	ND	0.0250		1	08/09/24	08/13/24	
p,m-Xylene	ND	0.0500		1	08/09/24	08/13/24	
Total Xylenes	ND	0.0250		1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		99.9 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		99.9 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2432132
Diesel Range Organics (C10-C28)	29.4	25.0		1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	:	1	08/09/24	08/12/24	
Surrogate: n-Nonane		99.5 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2432137
Chloride	322	20.0		1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS42 - 1' E408088-14

		2.0000011					
Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst			Batch: 2432121
Benzene	ND	0.0250		1	08/09/24	08/13/24	Batem 2 182121
Ethylbenzene	ND	0.0250		1	08/09/24	08/13/24	
Toluene	ND	0.0250		1	08/09/24	08/13/24	
o-Xylene	ND	0.0250		1	08/09/24	08/13/24	
p,m-Xylene	ND			1	08/09/24	08/13/24	
Total Xylenes	ND	0.0250		1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		99.2 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		99.2 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2432132
Diesel Range Organics (C10-C28)	58.4	25.0		1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/24	08/12/24	
Surrogate: n-Nonane		102 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2432137
Chloride	318	20.0		1	08/09/24	08/10/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS43 - 1' E408088-15

		E400000-13					
Analyte	Result	Reporting Limit	Dile	ıtion	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Diit	111011	1 repared	Analyzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Benzene	ND	0.0250		1	08/09/24	08/13/24	
Ethylbenzene	ND	0.0250		1	08/09/24	08/13/24	
Toluene	ND	0.0250		1	08/09/24	08/13/24	
o-Xylene	ND	0.0250		1	08/09/24	08/13/24	
p,m-Xylene	ND	0.0500		1	08/09/24	08/13/24	
Total Xylenes	ND	0.0250		1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		98.6 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		96.4 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		98.6 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		96.4 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2432132
Diesel Range Organics (C10-C28)	69.1	25.0		1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/24	08/12/24	
Surrogate: n-Nonane		97.6 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432137
Chloride	374	20.0		1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS44 - 1' E408088-16

		L100000 10					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	RKS		Batch: 2432121
Benzene	ND	0.0250	1	 !	08/09/24	08/13/24	
Ethylbenzene	ND	0.0250	1	1	08/09/24	08/13/24	
Toluene	ND	0.0250	1	[08/09/24	08/13/24	
o-Xylene	ND	0.0250	1	l	08/09/24	08/13/24	
p,m-Xylene	ND	0.0500	1	l	08/09/24	08/13/24	
Total Xylenes	ND	0.0250	1	l	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		98.8 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: 1	RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		98.8 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ı	Analyst: 1	NV		Batch: 2432132
Diesel Range Organics (C10-C28)	44.8	25.0	1		08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	08/09/24	08/12/24	
Surrogate: n-Nonane		98.0 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: 1	DT		Batch: 2432137
Chloride	283	20.0	1	1	08/09/24	08/10/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS45 - 1' E408088-17

		E400000-1/					
Analysis	Result	Reporting Limit		ution	Duranad	A l	Notes
Analyte	Result	Limit	Dilt	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2432121
Benzene	ND	0.0250		1	08/09/24	08/13/24	
Ethylbenzene	ND	0.0250		1	08/09/24	08/13/24	
Toluene	ND	0.0250		1	08/09/24	08/13/24	
o-Xylene	ND	0.0250		1	08/09/24	08/13/24	
p,m-Xylene	ND	0.0500		1	08/09/24	08/13/24	
Total Xylenes	ND	0.0250	į	1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		98.7 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		98.7 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2432132
Diesel Range Organics (C10-C28)	48.7	25.0		1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/24	08/12/24	
Surrogate: n-Nonane		103 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2432137
Chloride	286	20.0		1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS46 - 1' E408088-18

		E400000-10					
Analyte	Result	Reporting Limit	Dilu	ution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilu	шоп	ricparcu	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Benzene	ND	0.0250	1	1	08/09/24	08/13/24	
Ethylbenzene	ND	0.0250	1	1	08/09/24	08/13/24	
Toluene	ND	0.0250	1	1	08/09/24	08/13/24	
o-Xylene	ND	0.0250	1	1	08/09/24	08/13/24	
p,m-Xylene	ND	0.0500	1	1	08/09/24	08/13/24	
Total Xylenes	ND	0.0250	1	1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		97.7 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		97.7 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2432132
Diesel Range Organics (C10-C28)	42.8	25.0	1	1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/09/24	08/12/24	
Surrogate: n-Nonane		101 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432137
Chloride	263	20.0	1	1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS47 - 1' E408088-19

		E400000-19					
Analyte	Result	Reporting Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2432121
Benzene	ND	0.0250		1	08/09/24	08/13/24	
Ethylbenzene	ND	0.0250		1	08/09/24	08/13/24	
Toluene	ND	0.0250		1	08/09/24	08/13/24	
o-Xylene	ND	0.0250		1	08/09/24	08/13/24	
p,m-Xylene	ND	0.0500		1	08/09/24	08/13/24	
Total Xylenes	ND	0.0250		1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		98.6 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		98.6 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2432132
Diesel Range Organics (C10-C28)	ND	25.0		1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/24	08/12/24	
Surrogate: n-Nonane		96.7 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432137
Chloride	253	20.0		1	08/09/24	08/10/24	
Chloride	253	20.0		1	08/09/24	08/10/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

FS48 - 1' E408088-20

		E400000-20					
Analyte	Result	Reporting Limit	Dilu	ution	Prepared	Analyzed	Notes
Anaiyu	Result	Lillit	Dilu	ши	1 repared	Analyzeu	TYOICS
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Benzene	ND	0.0250	1	1	08/09/24	08/13/24	
Ethylbenzene	ND	0.0250	1	1	08/09/24	08/13/24	
Toluene	ND	0.0250	1	1	08/09/24	08/13/24	
o-Xylene	ND	0.0250	1	1	08/09/24	08/13/24	
p,m-Xylene	ND	0.0500	1	1	08/09/24	08/13/24	
Total Xylenes	ND	0.0250	1	1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		98.7 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432121
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/09/24	08/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/09/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		08/09/24	08/13/24	
Surrogate: Toluene-d8		98.7 %	70-130		08/09/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2432132
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/09/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/09/24	08/12/24	
Surrogate: n-Nonane		97.6 %	50-200		08/09/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2432137
Chloride	443	20.0	1	1	08/09/24	08/10/24	



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

FS49 - 1'

E408088-21								
		Reporting						
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2432120		
Benzene	ND	0.0250	1	08/09/24	08/10/24			
Ethylbenzene	ND	0.0250	1	08/09/24	08/10/24			
Toluene	ND	0.0250	1	08/09/24	08/10/24			
o-Xylene	ND	0.0250	1	08/09/24	08/10/24			
p,m-Xylene	ND	0.0500	1	08/09/24	08/10/24			
Total Xylenes	ND	0.0250	1	08/09/24	08/10/24			
Surrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	08/09/24	08/10/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2432120		
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/24	08/10/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/09/24	08/10/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2432138		
Diesel Range Organics (C10-C28)	102	25.0	1	08/09/24	08/09/24			
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/24	08/09/24			
Surrogate: n-Nonane		92.8 %	50-200	08/09/24	08/09/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2432129		
Chloride	152	20.0	1	08/09/24	08/09/24			



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

FS50 - 1'

E408088-22

Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: BA		Batch: 2432120
ND	0.0250	1	08/09/24	08/10/24	
ND	0.0250	1	08/09/24	08/10/24	
ND	0.0250	1	08/09/24	08/10/24	
ND	0.0250	1	08/09/24	08/10/24	
ND	0.0500	1	08/09/24	08/10/24	
ND	0.0250	1	08/09/24	08/10/24	
	91.1 %	70-130	08/09/24	08/10/24	
mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2432120
ND	20.0	1	08/09/24	08/10/24	
	105 %	70-130	08/09/24	08/10/24	
mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2432138
610	25.0	1	08/09/24	08/09/24	
1580	50.0	1	08/09/24	08/09/24	
	96.0 %	50-200	08/09/24	08/09/24	
mg/kg	mg/kg	Ana	alyst: JM		Batch: 2432129
mg/Kg	mg/kg		,		
	mg/kg ND ND ND ND ND ND ND Mg/kg ND mg/kg 610 1580	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MB/kg mg/kg MB/kg mg/kg MB/kg mg/kg MB/kg mg/kg 610 25.0 1580 50.0	Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 ND 70-130 mg/kg mg/kg Ana ND 20.0 1 105 % 70-130 1 mg/kg mg/kg Ana 610 25.0 1 1580 50.0 1 96.0 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 08/09/24 ND 0.0250 1 08/09/24 ND 0.0250 1 08/09/24 ND 0.0500 1 08/09/24 ND 0.0250 1 08/09/24 ND 0.0250 1 08/09/24 mg/kg mg/kg Analyst: BA ND 20.0 1 08/09/24 mg/kg mg/kg Analyst: KM 610 25.0 1 08/09/24 mg/kg 50.0 1 08/09/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 08/09/24 08/10/24 ND 0.0500 1 08/09/24 08/10/24 ND 0.0250 1 08/09/24 08/10/24 MD 0.0250 1 08/09/24 08/10/24 Mg/kg mg/kg Analyst: BA ND 20.0 1 08/09/24 08/10/24 Mg/kg mg/kg Analyst: BA 08/09/24 08/10/24 Mg/kg mg/kg Analyst: KM 08/09/24 08/10/24 1580 50.0 1 08/09/24 08/09/24 1580 50.0 1 08/09/24 08/09/24 06.0% 50-200 08/09/24



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

FS52 - 1'

		E408088-23				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2432120
Benzene	ND	0.0250	1	08/09/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/09/24	08/10/24	
Toluene	ND	0.0250	1	08/09/24	08/10/24	
o-Xylene	ND	0.0250	1	08/09/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/09/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/09/24	08/10/24	
Surrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	08/09/24	08/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2432120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/24	08/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/09/24	08/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2432138
Diesel Range Organics (C10-C28)	105	25.0	1	08/09/24	08/09/24	
Oil Range Organics (C28-C36)	52.5	50.0	1	08/09/24	08/09/24	
Surrogate: n-Nonane		95.2 %	50-200	08/09/24	08/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2432129
Chloride	283	20.0	1	08/09/24	08/09/24	



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

FS53 - 1'

		E408088-24				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2432120
Benzene	ND	0.0250	1	08/09/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/09/24	08/10/24	
Toluene	ND	0.0250	1	08/09/24	08/10/24	
o-Xylene	ND	0.0250	1	08/09/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/09/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/09/24	08/10/24	
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	08/09/24	08/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	nlyst: BA		Batch: 2432120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/24	08/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	70-130	08/09/24	08/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2432138
Diesel Range Organics (C10-C28)	91.6	25.0	1	08/09/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/24	08/10/24	
Surrogate: n-Nonane		93.0 %	50-200	08/09/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: JM		Batch: 2432129
Chloride	286	20.0	1	08/09/24	08/09/24	



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

FS54 - 1'

		E408088-25				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	nlyst: BA		Batch: 2432120
Benzene	ND	0.0250	1	08/09/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/09/24	08/10/24	
Toluene	ND	0.0250	1	08/09/24	08/10/24	
o-Xylene	ND	0.0250	1	08/09/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/09/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/09/24	08/10/24	
Surrogate: 4-Bromochlorobenzene-PID		91.9 %	70-130	08/09/24	08/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2432120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/24	08/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/09/24	08/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2432138
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/24	08/10/24	
Surrogate: n-Nonane		92.0 %	50-200	08/09/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: JM		Batch: 2432129
Chloride	237	20.0	1	08/09/24	08/09/24	



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

FS58 - 1' E408088-26

		E400000-20				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: BA		Batch: 2432120
Benzene	ND	0.0250	1	08/09/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/09/24	08/10/24	
Toluene	ND	0.0250	1	08/09/24	08/10/24	
o-Xylene	ND	0.0250	1	08/09/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/09/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/09/24	08/10/24	
Surrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	08/09/24	08/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2432120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/24	08/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	70-130	08/09/24	08/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2432138
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/24	08/10/24	
Surrogate: n-Nonane		92.2 %	50-200	08/09/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: JM		Batch: 2432129
Chloride	266	20.0	1	08/09/24	08/10/24	



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

FS59 - 1'

		E408088-27				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2432120
Benzene	ND	0.0250	1	08/09/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/09/24	08/10/24	
Toluene	ND	0.0250	1	08/09/24	08/10/24	
o-Xylene	ND	0.0250	1	08/09/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/09/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/09/24	08/10/24	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	08/09/24	08/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2432120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/24	08/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	70-130	08/09/24	08/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2432138
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/24	08/10/24	
Surrogate: n-Nonane		94.5 %	50-200	08/09/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2432129
Chloride	339	20.0	1	08/09/24	08/10/24	



Devon Energy - Carlsbad Project Name: Spud Muffin 31 30 334H Reported:
6488 7 Rivers Hwy Project Number: 01058-0007
Artesia NM, 88210 Project Manager: Ashley Giovengo 8/14/2024 4:44:13PM

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go			8/1	4/2024 4:44:13PN	
	Volatile Organic Compounds by EPA 8260B							Analyst: RKS		
Analyte		Reporting	Spike	Source		Rec		RPD		
,	Result	Limit	Level	Result	Rec	Limits	RPD	Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2432121-BLK1)							Prepared: 0	8/09/24 Anal	yzed: 08/12/24	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
p-Xylene	ND	0.0250								
o,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130				
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130				
LCS (2432121-BS1)							Prepared: 0	8/09/24 Anal	yzed: 08/12/24	
Benzene	2.28	0.0250	2.50		91.3	70-130				
Ethylbenzene	2.27	0.0250	2.50		90.8	70-130				
Toluene	2.14	0.0250	2.50		85.4	70-130				
p-Xylene	2.21	0.0250	2.50		88.3	70-130				
p,m-Xylene	4.42	0.0500	5.00		88.5	70-130				
Total Xylenes	6.63	0.0250	7.50		88.4	70-130				
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130				
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130				
Matrix Spike (2432121-MS1)				Source:	E408088-	04	Prepared: 0	8/09/24 Anal	yzed: 08/12/24	
Benzene	2.35	0.0250	2.50	ND	94.1	48-131				
Ethylbenzene	2.34	0.0250	2.50	ND	93.6	45-135				
Toluene	2.20	0.0250	2.50	ND	88.0	48-130				
o-Xylene	2.35	0.0250	2.50	ND	93.8	43-135				
p,m-Xylene	4.71	0.0500	5.00	ND	94.1	43-135				
Total Xylenes	7.05	0.0250	7.50	ND	94.0	43-135				
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130				
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130				
Matrix Spike Dup (2432121-MSD1)				Source:	E408088-	04	Prepared: 0	8/09/24 Anal	yzed: 08/12/24	
Benzene	2.57	0.0250	2.50	ND	103	48-131	8.84	23		
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135	11.1	27		
Toluene	2.47	0.0250	2.50	ND	98.9	48-130	11.6	24		
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	11.5	27		
p,m-Xylene	5.26	0.0500	5.00	ND	105	43-135	11.1	27		
Total Xylenes	7.89	0.0250	7.50	ND	105	43-135	11.2	27		
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130				
			0.500		101	50 15				

0.500

70-130

0.503

Surrogate: Toluene-d8

Spud Muffin 31 30 334H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 8/14/2024 4:44:13PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Prepared: 08/09/24 Analyzed: 08/09/24 Blank (2432120-BLK1) ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.06 8.00 88.3 70-130 LCS (2432120-BS1) Prepared: 08/09/24 Analyzed: 08/09/24 4.81 96.2 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.64 0.0250 5.00 92.8 70-130 4.82 0.0250 5.00 96.4 70-130 Toluene 4.74 94.7 o-Xylene 0.0250 5.00 70-130 9.54 10.0 95.4 70-130 0.0500 p.m-Xvlene 95.2 14.3 15.0 70-130 Total Xylenes 0.0250 8.00 89.0 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.12 Matrix Spike (2432120-MS1) Source: E408083-07 Prepared: 08/09/24 Analyzed: 08/09/24 4.78 0.0250 5.00 ND 95.6 54-133 Benzene ND 91.4 61-133 Ethylbenzene 4.57 0.0250 5.00 Toluene 4.77 0.0250 5.00 ND 95.5 61-130 4.67 ND 93.4 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.37 0.0500 10.0 ND 93.7 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.23 8.00

Source: E408083-07

84.8

81.6

85.0

83.2

83.9

83.7

90.5

54-133

61-133

61-130

63-131

63-131

63-131

70-130

11.9

11.3

11.6

11.5

11.0

11.2

ND

ND

ND

ND

ND

ND



Prepared: 08/09/24 Analyzed: 08/09/24

20

20

20

20

20

Matrix Spike Dup (2432120-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

4.24

4.08

4 25

4.16

8.39

12.6

7.24

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

5.00

10.0

15.0

8.00

Matrix Spike Dup (2432120-MSD2)

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

45.3

8.48

20.0

QC Summary Data

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

Artesia NM, 88210		Project Manager	r: As	shley Gioveng	go			8/1	4/2024 4:44:13PM
	Nonhalogenated Organics by EPA 8015D - GRO Reporting Spike Source Rec RPD Limit Level Result Rec Limits RPD Limit	Analyst: BA							
Analyte		Limit	Level	Result		Limits		Limit	Notes
Blank (2432120-BLK1)							Prepared: 0	8/09/24 Anal	yzed: 08/09/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		8.00		105	70-130			
LCS (2432120-BS2)							Prepared: 0	8/09/24 Anal	yzed: 08/09/24
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		107	70-130			
Matrix Spike (2432120-MS2)				Source:	E408083-	07	Prepared: 0	8/09/24 Anal	yzed: 08/10/24
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.39		8.00		105	70-130			

50.0

8.00

Source: E408083-07

106

ND

Prepared: 08/09/24 Analyzed: 08/10/24

20

2.89

70-130

70-130

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo8/14/2024 4:44:13PM

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go			8	/14/2024 4:44:13P		
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2432121-BLK1)							Prepared: 0	8/09/24 Ana	alyzed: 08/12/24		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130					
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130					
LCS (2432121-BS2)							Prepared: 0	8/09/24 Ana	alyzed: 08/13/24		
Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.7	70-130					
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130					
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130					
Matrix Spike (2432121-MS2)				Source:	E408088-	04	Prepared: 0	8/09/24 Ana	alyzed: 08/12/24		
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130					
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130					
Surrogate: Toluene-d8	0.507		0.500		101	70-130					

Surrogate: Toluene-d8	0.507		0.500		101	70-130			
Matrix Spike Dup (2432121-MSD2)				Source:	E408088-0	04	Prepared: 08	8/09/24 Analyzed: 08/12/24	
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.5	70-130	3.73	20	
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

Artesia NM, 88210		Project Manager	r: As	hley Gioveng	go				8/14/2024 4:44:13PN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432132-BLK1)							Prepared: 0	8/09/24 An	alyzed: 08/11/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.6		50.0		91.2	50-200			
LCS (2432132-BS1)							Prepared: 0	8/09/24 An	alyzed: 08/11/24
Diesel Range Organics (C10-C28)	236	25.0	250		94.3	38-132			
urrogate: n-Nonane	51.8		50.0		104	50-200			
Matrix Spike (2432132-MS1)				Source:	E408088-0	03	Prepared: 0	8/09/24 An	alyzed: 08/11/24
Diesel Range Organics (C10-C28)	301	25.0	250	ND	121	38-132			
urrogate: n-Nonane	48.3		50.0		96.5	50-200			
Matrix Spike Dup (2432132-MSD1)				Source:	E408088-0	03	Prepared: 0	8/09/24 An	alyzed: 08/11/24
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	17.8	20	
hurrogate: n-Nonane	48.8		50.0		97.5	50-200			

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

Artesia NM, 88210		Project Manager	r: As	hley Gioveng	go				8/14/2024 4:44:13PN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432138-BLK1)							Prepared: 0	8/09/24 Aı	nalyzed: 08/09/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.4		50.0		92.7	50-200			
LCS (2432138-BS1)							Prepared: 0	8/09/24 Aı	nalyzed: 08/09/24
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
urrogate: n-Nonane	48.8		50.0		97.6	50-200			
Matrix Spike (2432138-MS1)				Source:	E408082-1	12	Prepared: 0	8/09/24 Aı	nalyzed: 08/09/24
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132			
urrogate: n-Nonane	48.5		50.0		97.1	50-200			
Matrix Spike Dup (2432138-MSD1)				Source:	E408082-1	12	Prepared: 0	8/09/24 Aı	nalyzed: 08/09/24
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132	2.96	20	
'urrogate: n-Nonane	49.3		50.0		98.5	50-200			

Chloride

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	Spud Muffin 31 30 334H 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/14/2024 4:44:13PM

Artesia NM, 88210		Project Manager	r: A	shley Gioveng	50				8/14/2024 4:44:13PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	1				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
Blank (2432129-BLK1)							Prepared: 0	08/09/24 A	nalyzed: 08/09/24
Chloride	ND	20.0							
LCS (2432129-BS1)							Prepared: 0	08/09/24 A	nalyzed: 08/09/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2432129-MS1)				Source:	E408085-	05	Prepared: 0	08/09/24 A	nalyzed: 08/09/24
Chloride	273	20.0	250	21.4	101	80-120			
Matrix Spike Dup (2432129-MSD1)				Source:	E408085-	05	Prepared: 0	08/09/24 A	nalyzed: 08/09/24

250

20.0

21.4

80-120

0.680



Matrix Spike Dup (2432137-MSD1)

Chloride

604

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number Project Manage	: (Spud Muffin 31 01058-0007 Ashley Gioveng					Reported: 8/14/2024 4:44:13PM
		Anions	by EPA	300.0/9056	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432137-BLK1)							Prepared: 0	8/09/24 Ar	nalyzed: 08/10/24
Chloride	ND	20.0							
LCS (2432137-BS1)							Prepared: 0	8/09/24 Ar	nalyzed: 08/10/24
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2432137-MS1)				Source:	E408088-	07	Prepared: 0	8/09/24 Ar	nalyzed: 08/10/24
Chloride	594	20.0	250	353	96.1	80-120			

250

20.0

Source: E408088-07

100

80-120

1.78

353

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.



Prepared: 08/09/24 Analyzed: 08/10/24

20

Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/14/24 16:44

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.



1	of _	3
		Received by OCD:
		ed b
		0.0
D.A.		S):
RA		9/1
N		7/26
- 9		9/17/2024 3

	Clie	nt Inform	ation		146	Invoice Informatio	n				Lab	Use (Only				TA	AT			Stat	e
Client: Droject:			-30 334H		A	ompany: Devon ddress: 205 E Bender Road # tv, State, Zip: Hobbs NM, 88		La	ab W	10# 180	88	Jo	o Nun	ber - 000	7	1D	2D	3D	Std x	NM x	CO UT	TX
	3122 Natio					one: (575)748-1838	240	_	Г			Δ	nalysi	and	Met	hod	-			FI	PA Progr	am
	te, Zip: Carls					mail: dale.woodall@dvn.co	ım.	-	-	-		7	larysi	l	T	liou				SDWA	CWA	RCRA
	575-988-005		00220			scellaneous: Dale Woodall	7111	_											1			1
	giovengo@e		om			Scenarious, Bale Woodan				8015	015								-	Complian	ce Y	or
				Sam	ple Informati	on				0 by 8	0 by 8	1700	300.0	N	5-TX	Metals			1	PWSID #		
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb	er	DRO/ORO by	GRO/DRO by	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remarks	\$
10:20	8/7/2024	Soil	1			FS29 - 1'		1				ñ		х								
9:32	8/7/2024	Soil	1			FS30 - 1'		2						х								
9:33	8/7/2024	Soil	1			FS31 - 1'		3						х								
9:35	8/7/2024	Soil	1			FS32 - 1'		4						x								
9:36	8/7/2024	Soil	1			FS33 - 1'		5						х								
9:38	8/7/2024	Soil	1			FS34 - 1'		6						х								
10:21	8/7/2024	Soil	1			FS35 - 1'		7						х								
10:22	8/7/2024	Soil	1			FS36 - 1'		8						х								
9:40	8/7/2024	Soil	1			FS37 - 1'		9						x								
11:10	8/7/2024	Soil	1			FS38 - 1'		10						х								
						, agiovengo@ensolum.com,																
	pler), attest to the :_Cole Burton	e validity and	dauthenticity	of this samp	ole. I am aware th	at tampering with or intentionally misla	beling the sa	mple loca	ition, o	date o	r time o	collec	tion is c									
Relinquish	led by: (Signatu	(e)	Date	8/29	Time 9:11	Received by: (Signature)	des B	8-2-	f T	09	11										d on ice the d O but less tha	
_	ed by (Signatu	W.	0	8 24	1645	Received by: (Signature)		8.4		_	45			Red	eive	d on	ice:		b Us	e Only		
elinguish	ed by: Signatu	re)	B.	8.4	7400	Received by: (Signature)		-9-24	(06 2	30			<u>T1</u>				<u>T2</u>			<u>T3</u>	
Relinquish	ed by: (Signatu	re)	Date		Time	Received by: (Signature)	Date			Time					G Ter			_				
ample Mar	trix: S - Soil, Sd - S	olid, Sg - Slu	dge, A - Aque	ous, O - Oth	er		Con	tainer	Type:	: g - g	lass, p	- pol	y/plas	ic, ag	- am	ber g	lass,	v - VO	A			

	Clie	nt Inforn	nation			Invoice Informat	ion				Lab	Use (Only				TAT			State		
Client: D					Comp	any: Devon			Lab W	VO#		Jo	b Nu	mber		1D 2	D 3D	Std	NM CC	UT TX		
Project:		luffiin 31	-30 334H			ss: 205 E Bender Road	d #150		EHO		88	0	1058	3-00	07			х	х			
	lanager: As	hley Giov	engo		City, S	tate, Zip: Hobbs NM,	88240															
Address:	3122 Natio	nal Parks	Hwy		Phone	: (575)748-1838						A	nalys	is and	Met	hod			EPA Program			
City, State	e, Zip: Carls	bad NM,	88220		Emai	: dale.woodall@dvn	.com												SDWA C	WA RCRA		
	75-988-005				Miscell	aneous: Dale Woodall														I I I I		
Email: ag	iovengo@e	nsolum.c	om				- Inc			8015	8015							1 -	Compliance	Y or N		
					, ,					2	6	27	9 9	Σ	×	etals			PWSID #			
T		_	T T	Sample In	formation		-	4		ORO	ORO	39 80	4 4	5	5002	8 W			Po	marks		
Time Sampled	Date Sampled	Matrix	No. of Containers		Sai	mple ID	Field	La Num	nber	DRO/ORO	GRO/DRO	BTEX by 8021	Chloride 300 0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Re	illarks		
11:11	8/7/2024	Soil	1		FS	39 - 1'		11						х								
9:42	8/7/2024	Soil	1		FS	40 - 1'		13	2					x								
11:12	8/7/2024	Soil	1		FS	41 - 1'		13	3					х								
9:44	8/7/2024	Soil	1		FS	42 - 1'		10	1					х								
11:13	8/7/2024	Soil	1		FS	43 - 1'		15	;					х								
11:15	8/7/2024	Soil	1		FS	44 - 1'		14						х								
9:48	8/7/2024	Soil	1		FS	45 - 1'		1=			T			х								
9:48	8/7/2024	Soil	1		FS	46 - 1'		18						х								
10:05	8/7/2024	Soil	1		FS	47 - 1'		10						x								
10:06	8/7/2024	Soil	1		FS	48 - 1'		20	7					х								
Addition	al Instruction	ns: Ple	ase CC: cbi	ırton@ensol	um.com, ag	iovengo@ensolum.co	m, dale.w	oodall	@dvn	.com	n, cha	milto	n@e	nsolu	m.co	m, iest	rella@	ensolu	um.com			
- 08						and the second s												1.6	Land and the			
		e validity an	d authenticity of	f this sample. I an	n aware that tar	npering with or intentionally m	islabeling the	sample lo	cation,	date o	r time o	of collec	tion is	conside	red fra	ad and m	y be gro	unas tor	legal action.			
	_Cole Burton ed by: (Signatu	re)	Date	Time	Re	ceived by: (Signature)	_ Da	ate	. 1-	Time				Sam	ples requ	uiring then	nal preserv	vation mu	ist be received on i	ce the day they are		
	1 2				11	ceived by: (Signature)	nec 7	8-8-2	4	00	111						cked in ice	at an avg	temp above 0 but	less than 6 °C on		
Relinquish	ed by (Signatu	re) ongal		Time	45 Re	ceived by: (Signature)	Da	3.8.		Time	45				ceive	d on ic		ab Us	e Only			
Relinguine	ed by: (Şignatu	re)	Date	Time		ceived by: (Signature)	Da	ate		Time												
(1)	M. June		8.9	3.24 24	60	C	1	3-9-	24	06	30			T1			T2		<u>T3</u>			
Relinquishe	ed by: (Signatu	ire)	Date	Time		ceived by: (Signature)		ate	_	Time												
							3							AV	G Ter	np °C_	4					

envirotech environment envir

Released to Imaging: 10/17/2024 1:34:05 PM

	Clie	nt Inform	ation				Invoice	Information					Lab U	se Or	nly				TA				State	
Client: D	evon						: Devon				Lab W	D#			Num			1D	2D	3D St	d NN	/I CO	UT T	X
Project:	Spud M	luffiin 31	-30 334H			The second secon		ender Road #1			E 40	80	88	010	58-	000	7			х	x			
Project N	1anager: Asl	hley Giov	engo					obbs NM, 882	40															
	ress: 3122 National Parks Hwy Phone: (575)748-18													Ana	alysis	and	Met	hod			EPA Program			
								dall@dvn.cor	n												SDWA	CV	VA	RCRA
	one: 575-988-0055					Miscellaneous: Dale Woodall															- "	1		
Email: a	giovengo@e	nsolum.c	om								200	8015									Complia		Y	or N
											- 3	by 8(121	09	0.00	Σ	×	stals			PWSID #	Ħ	-	
			r - r	Sam	ple Inforr	nation				٠	- 8	S S)y 8C	y 82	de 3(- 'S	500	8 Me				Dom	arks	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sampl	e ID		Field	Tal Num	b ber	GBO/DBO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Kem	IdIKS	
10:06	8/7/2024	Soil	1			FS49	- 1'			2	(х								RCRA
10:07	8/7/2024	Soil	1			FS50	- 1'			2	2					x								
13:01	8/7/2024	Soil	1			FS52	- 1'			23	3					х								
10:08	8/7/2024	Soil	1			FS53	- 1'			24						x								
13:02	8/7/2024	Soil	1			FS54	- 1'			25						х								
10:11	8/7/2024	Soil	1			FS58	- 1'			26						х								
13:04	8/7/2024	Soil	1			FS59	- 1'			2=	}					х								
Addition	al Instructio	ns: Ple	ase CC: cb	urton@	ensolum.	com, agiov	engo@en	solum.com,	lale.w	oodall@	@dvn.	om,	cham	ilton	@ens	olun	ı.cor	n, ie	strell	a@ens	olum.com	1		
	oler), attest to the	e validity and	authenticity	of this sam	ple. I am awa	re that tamper	ing with or in	ntentionally mislab	eling the	sample lo	cation, d	te or t	ime of o	ollectio	on is co	nsidere	d frau	id and	may be	e grounds	for legal actio	on.		
	ed by: (Signatu	te)	Date	8/24	Time 9 = 11	Beceiv	red by: (Sign	Googal	es S	re 8.2	4 (ne SU	1			sample	ed or re	eceived			n must be receive a avg temp abov			
0.00	ed by (Signatu	re) /	Date	8:24	Time 164	Receix	ed by: (Sign		Da	3.8.1	Ti	ne 170	15			Rece			ce:	Lab	Use Only N			
Relinquish	ed by: (Signatu	re)	Date	3.24	Time 1400	Receiv	red by: (Sign	nature)	Da		Ti	ne	0			T1				T2		<u>T3</u>		
Relinquish	ed by: (Signatu	re)	Date	, -1	Time		ved by: (Sign	nature)	Da	te	Ti	ne				AVG			L					
	riv: S - Soil Sd - S	solid. Sg - Slu	dge, A - Aque	ous, O - Oth	ner				Co	ntainer	Type:	g - gla	ss, p -	poly/	plasti	ic, ag	- aml	ber g	ass, v	- VOA				



envirotech Inc.

Printed: 8/9/2024 8:17:45AM

Envirotech Analytical Laboratory

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:	08/09/24 (06:30	Work Order ID:	E408088
Phone:	(505) 382-1211	Date Logged In:	08/09/24 (07:09	Logged In By:	Noe Soto
Email:	ashley.giovengo@wescominc.com	Due Date:	08/15/24	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Courie	<u>er</u>	
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		Commen	ts/Resolution
Sample T	Curn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e 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 th	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C	•		_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lat	· ·	neis conceica.	105			
	field sample labels filled out with the minimum info	ormation.				
	ample ID?	mation.	Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		Yes			
Sample P	reservation_					
21. Does	the COC or field labels indicate the samples were pr	reserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	ract Laboratory					
	amples required to get sent to a subcontract laborato	rv?	No			
	subcontract laboratory specified by the client and it	-	NA	Subcontract Lab: NA	\	
				Subcontract East. 1411	•	
Chent II	nstruction					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E408111

Job Number: 01058-0007

Received: 8/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/15/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/15/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E408111

Date Received: 8/12/2024 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/12/2024 8:15:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW01 - 0-2'	5
SW02 - 0-1'	6
SW03 - 0-1'	7
FS58 - 2'	8
FS66 - 3'	9
QC Summary Data	10
QC - Volatile Organic Compounds by EPA8260B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Donoutode
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/15/24 15:36

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW01 - 0-2'	E408111-01A Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
SW02 - 0-1'	E408111-02A Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
SW03 - 0-1'	E408111-03A Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
FS58 - 2'	E408111-04A Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
FS66 - 3'	E408111-05A Soil	08/08/24	08/12/24	Glass Jar. 2 oz.



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/15/2024 3:36:50PM

SW01 - 0-2' E408111-01

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2433016
Benzene	ND	0.0250		1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250		1	08/12/24	08/13/24	
Toluene	ND	0.0250		1	08/12/24	08/13/24	
o-Xylene	ND	0.0250		1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500		1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	:	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene		98.2 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8		105 %	70-130		08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2433016
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene		98.2 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8		105 %	70-130		08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2433014
Diesel Range Organics (C10-C28)	ND	25.0		1	08/12/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/12/24	08/12/24	
Surrogate: n-Nonane		84.0 %	50-200		08/12/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: WF		Batch: 2433048
					08/13/24	08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/15/2024 3:36:50PM

SW02 - 0-1' E408111-02

		12400111-02				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	inotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2433016
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene		97.4 %	70-130	08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/12/24	08/13/24	
Surrogate: Toluene-d8		106 %	70-130	08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2433016
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene		97.4 %	70-130	08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/12/24	08/13/24	
Surrogate: Toluene-d8		106 %	70-130	08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV		Batch: 2433014
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/12/24	
Surrogate: n-Nonane		93.9 %	50-200	08/12/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: WF		Batch: 2433048
-	296	20.0	1	08/13/24	08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/15/2024 3:36:50PM

SW03 - 0-1' E408111-03

		E400111-05					
Analyte	Result	Reporting Limit	Dilu	tion Duo	pared	Analyzed	Notes
Analyte	Resuit	Liinit	שוועו	uon Pre	pareu	Anaryzed	notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY			Batch: 2433016
Benzene	ND	0.0250	1	08/	12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/	12/24	08/13/24	
Toluene	ND	0.0250	1	08/	12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/	12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/	12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/	12/24	08/13/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130	08/.	12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	08/	12/24	08/13/24	
Surrogate: Toluene-d8		105 %	70-130	08/	12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2433016
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/	12/24	08/13/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130	08/.	12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	08/	12/24	08/13/24	
Surrogate: Toluene-d8		105 %	70-130	08/	12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: NV			Batch: 2433014
Diesel Range Organics (C10-C28)	43.0	25.0	1	08/	12/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/	12/24	08/12/24	
Surrogate: n-Nonane		90.7 %	50-200	08/.	12/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF			Batch: 2433048
Chloride	466	20.0	1	08/	13/24	08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/15/2024 3:36:50PM

FS58 - 2'

		E408111-04					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2433016
Benzene	ND	0.0250		1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250		1	08/12/24	08/13/24	
Toluene	ND	0.0250		1	08/12/24	08/13/24	
o-Xylene	ND	0.0250		1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500		1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250		1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene		97.4 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8		103 %	70-130		08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2433016
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene		97.4 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8		103 %	70-130		08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2433014
Diesel Range Organics (C10-C28)	ND	25.0		1	08/12/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/12/24	08/12/24	
Surrogate: n-Nonane		93.0 %	50-200		08/12/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2433048
Chloride	184	20.0		1	08/13/24	08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/15/2024 3:36:50PM

FS66 - 3' E408111-05

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2433016
Benzene	ND	0.0250		1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250		1	08/12/24	08/13/24	
Toluene	ND	0.0250		1	08/12/24	08/13/24	
o-Xylene	ND	0.0250		1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500		1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250		1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene		97.6 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8		104 %	70-130		08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2433016
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/12/24	08/13/24	
Surrogate: Bromofluorobenzene		97.6 %	70-130		08/12/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130		08/12/24	08/13/24	
Surrogate: Toluene-d8		104 %	70-130		08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2433014
Diesel Range Organics (C10-C28)	ND	25.0		1	08/12/24	08/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/12/24	08/12/24	
Surrogate: n-Nonane		81.3 %	50-200		08/12/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2433048
Chloride	563	20.0		1	08/13/24	08/13/24	

Devon Energy - Carlsbad Project Name: Spud Muffin 31 30 334H Reported:
6488 7 Rivers Hwy Project Number: 01058-0007
Artesia NM, 88210 Project Manager: Ashley Giovengo 8/15/2024 3:36:50PM

Volatile Organic Compounds by EPA 8260B Analyst: IV

Artesia Nivi, 88210		Project Manage	r. As	sniey Giovens	go			6/1	3/2024 3.30.30FW
	V	Analyst: IY							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433016-BLK1)							Prepared: 0	8/12/24 Anal	yzed: 08/12/24
Benzene	ND	0.0250					1		,
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	0.481	******	0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dicnioroeinane-a4 Surrogate: Toluene-d8	0.498		0.500		105	70-130			
LCS (2433016-BS1)							Prepared 0	8/12/24 Anal	yzed: 08/12/24
	2.45	0.0250	2.50		09.2	70 120	1 repared. 0	JI 12127 FAIIGI	y 200. 00/12/24
Benzene	2.45	0.0250	2.50		98.2	70-130			
Ethylbenzene	2.51	0.0250	2.50		100	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.41	0.0250	2.50		96.5	70-130			
p,m-Xylene	4.82	0.0500	5.00		96.4	70-130			
Total Xylenes	7.23	0.0250	7.50		96.5	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
Matrix Spike (2433016-MS1)				Source:	E408112-2	21	Prepared: 0	8/12/24 Anal	yzed: 08/13/24
Benzene	2.51	0.0250	2.50	ND	100	48-131			
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135			
Toluene	2.54	0.0250	2.50	ND	101	48-130			
o-Xylene	2.44	0.0250	2.50	ND	97.6	43-135			
p,m-Xylene	4.87	0.0500	5.00	ND	97.3	43-135			
Total Xylenes	7.31	0.0250	7.50	ND	97.4	43-135			
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
Matrix Spike Dup (2433016-MSD1)				Source:	E408112-2	21	Prepared: 0	8/12/24 Anal	yzed: 08/13/24
Benzene	2.45	0.0250	2.50	ND	98.1	48-131	2.40	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.7	45-135	0.461	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	0.0592	24	
o-Xylene	2.43	0.0250	2.50	ND	97.4	43-135	0.185	27	
p,m-Xylene	4.90	0.0500	5.00	ND	98.0	43-135	0.696	27	
Total Xylenes	7.34	0.0250	7.50	ND	97.8	43-135	0.403	27	
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			

0.500

0.523

105

70-130

Surrogate: Toluene-d8

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo8/15/20243:36:50PM

Nonhalogenated Organics by EPA 8015D	- GRO
--------------------------------------	-------

Analyst: IY

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

	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433016-BLK1)							Prepared: 0	8/12/24 Ana	alyzed: 08/12/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.481		0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
LCS (2433016-BS2)							Prepared: 0	8/12/24 Ana	alyzed: 08/13/24
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			
Matrix Spike (2433016-MS2)				Source:	E408112-2	1	Prepared: 0	8/12/24 Ana	alyzed: 08/13/24
Matrix Spike (2433016-MS2) Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	Source:	E408112-2	70-130	Prepared: 0	8/12/24 Ana	alyzed: 08/13/24
,	51.7 0.498	20.0	50.0 0.500				Prepared: 0	8/12/24 Ana	alyzed: 08/13/24
Gasoline Range Organics (C6-C10)		20.0			103	70-130	Prepared: 0	8/12/24 Ana	alyzed: 08/13/24
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene	0.498	20.0	0.500		103 99.5	70-130 70-130	Prepared: 0	8/12/24 Ana	alyzed: 08/13/24
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.498 0.498	20.0	0.500 0.500	ND	103 99.5 99.5	70-130 70-130 70-130 70-130			alyzed: 08/13/24 alyzed: 08/13/24
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.498 0.498	20.0	0.500 0.500	ND	103 99.5 99.5 107	70-130 70-130 70-130 70-130			•
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2433016-MSD2)	0.498 0.498 0.534		0.500 0.500 0.500	ND Source:	103 99.5 99.5 107 E408112-2	70-130 70-130 70-130 70-130	Prepared: 0	8/12/24 Ana	•
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2433016-MSD2) Gasoline Range Organics (C6-C10)	0.498 0.498 0.534		0.500 0.500 0.500	ND Source:	103 99.5 99.5 107 E408112-2	70-130 70-130 70-130 70-130 1	Prepared: 0	8/12/24 Ana	•



Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	0/4.7/2024 0.25.70225
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/15/2024 3:36:50PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go				8/15/2024 3:36:50PN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433014-BLK1)							Prepared: 0	8/12/24 Ar	nalyzed: 08/12/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			
LCS (2433014-BS1)							Prepared: 0	8/12/24 Ar	nalyzed: 08/12/24
Diesel Range Organics (C10-C28)	238	25.0	250		95.3	38-132			
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			
Matrix Spike (2433014-MS1)				Source:	E408110-0	02	Prepared: 0	8/12/24 Ar	nalyzed: 08/13/24
Diesel Range Organics (C10-C28)	320	25.0	250	89.3	92.2	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			
Matrix Spike Dup (2433014-MSD1)				Source:	E408110-0	02	Prepared: 0	8/12/24 Ar	nalyzed: 08/13/24
Diesel Range Organics (C10-C28)	318	25.0	250	89.3	91.6	38-132	0.455	20	
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			

Chloride

Chloride

Matrix Spike Dup (2433048-MSD1)

QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager	0	pud Muffin 31 1058-0007 .shley Giovens				8	Reported: 8/15/2024 3:36:50PM
		Anions	by EPA	300.0/9056	4				Analyst: WF
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2433048-BLK1)							Prepared: 0	8/13/24 An	alyzed: 08/13/24
Chloride	ND	20.0							
LCS (2433048-BS1)							Prepared: 0	8/13/24 An	alyzed: 08/13/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2433048-MS1)				Source:	E408111-0)1	Prepared: 0	8/13/24 An	alyzed: 08/13/24

250

250

20.0

20.0

67.5

67.5

109

102

Source: E408111-01

80-120

80-120

5.38

Prepared: 08/13/24 Analyzed: 08/13/24

20

340

322

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:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/15/24 15:36

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 15 of 16	,

Client Information			1	Invoice Information			ı	Lab Use Only								TAT				State					
Client: Devon			Company: Devon		Lab WO# Jo					luml	ber	[1D	2D	3D	Std		M C	O UT	TX					
Project: Spud Muffin 31 30 #334H			Ad	Address: 205 E Bender Road #150		Eط	80,	II	\	010	58	∞	<u> </u>				x	×							
Project N	/lanager: Asl	hley Giov	engo		Cit	y, State, Zip: Hobb	s NM, 88240	_	[,											
Address:	3122 Natio	nal Parks	Hwy		<u>Pho</u>	Phone: (575)748-1838			1	Π				Analysis and Me				hod					EPA	Progra	
City, State, Zip: Carlsbad NM, 88220			<u>E</u> n	nail: dale.woodal	ll@dvn.com			Γ												SDW	Α	CWA	RCRA		
Phone: 5	575-988-005	5			Miso	cellaneous: Dale W	oodall														l				
Email: a	giovengo@e	nsolum.c	om								ا ي	2									l	Compl	iance	Y	or N
		-									8	8	-	اما	2	_	_×	als				PWSII)#		
			_	Sam	ple Information	n					စ္စ	ខ្លឹ	807	826	8	ź	50	Met							
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	}	Field Filter Ta			DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ ЬУ 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					R	emarks	
16:30	8/8/2024	Soil	1		S	W01 - 0-2'			1							x									
15:38	8/8/2024	Soil	1		S	W02 - 0-1'	1		а							x									
16:35	8/8/2024	Soil	1		S	W03 - 0-1'			3							x									
17:00	8/8/2024	Soil	1			FS58 - 2')		4							х									
17:13	8/8/2024	Soil	1			FS66 - 3'	!		5	,						х									
							1																		
							Ţ																		
									-										 						
						agiovengo@ensol	lum.com, dale	.wo	odall@	Pdvr	ı.cor	n, ie	strel	la@e	nsol	um.c	om,	bde	al@e	nsol	lum.	com,			
chamilto	n@ensolum	n.com, bs	immons(@ensolun	n.com	t tampering with or intent	Nanally midabalian	the co	mala las	ntion	data	or time	- of co	llactio	is cor	reidore	od frau	d and	may b	0.000	nds fo	r legal ac	tion	_	
	pier), attest to thi : _Brandon Deal_	e validity and	a authenticit	A or rus samb	ne. Taillawaie (na	rempetal with or intent	noneny misiabeling	WIE 36	pie ioc	.au011,	, Jace	or unit	. 0		3 001		. u 116u		ay D	. 5. Ju					
	ed by: (Signatu	ro)	Date	,	Time	Received-by: (Gignatu	ere) A	Date			Time	-				Sampl	es requ	iring th	ermal p	reserva	ation m	ust be rec	elved on	ice the da	y they are
Ma		,		19/2004		Raceived by: Gignatu	zongales	X-	9.2	4	1	930)	l					packed	in ice a	at an av	g temp at	ove 0 bu	it less than	6°C on
	ed by: (Signatu	re)			Time	Received by: (Signatu		Date	7-9	-2	Time	3		,			eivec		ice:	_	ab U	se Onl	, 		
	ed by: (Signatu		Date	-9-14	1317	Received by: (Signatu	ire)	Bate 8	12/2	24	Time	:15				<u>T1</u>				T2			_ <u>I</u>	3	
Relinquish	ed by: (Signatu	re)	Date		Time	Received by: (Signatu	ire)	Date			Time						i Ten			4					
	trix: S - Soil , Sd - S								tainer																
						arrangements are mad											e clier	nt exp	ense.	The r	eport	for the	analys	is of the	above



envirotects envirotects.

Printed: 8/12/2024 8:43:25AM

Envirotech Analytical Laboratory

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:	08/12/24	08:15	Work Order ID:	E408111
Phone:	(505) 382-1211	Date Logged In:	08/12/24	08:38	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	08/16/24	17:00 (4 day TAT)		
~						
	Custody (COC)					
	he sample ID match the COC?	tab tha COC	Yes			
	he number of samples per sampling site location ma	ten the COC	Yes			
	amples dropped off by client or carrier?	. 1 1 0	Yes	Carrier: Couier		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Comment</u>	s/Resolution
	Furn Around Time (TAT) c COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?					
	, were custody/security seals intact?		No			
		1	NA			
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
		temperature. 4	<u>c</u>			
	Container		NI.			
	queous VOC samples present?		No NA			
	VOC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?					
	a trip blank (TB) included for VOC analyses?	0	NA			
	on-VOC samples collected in the correct containers		Yes			
	appropriate volume/weight or number of sample contain	ners collected?	Yes			
Field La		.•				
	field sample labels filled out with the minimum info ample ID?	ormation:	Yes			
	Pate/Time Collected?		Yes			
	Collectors name?		Yes			
Sample I	Preservation					
21. Does	the COC or field labels indicate the samples were pr	reserved?	No			
22. Are s	ample(s) correctly preserved?		NA			
	filteration required and/or requested for dissolved n	netals?	No			
Multipha	ase Sample Matrix					
_	the sample have more than one phase, i.e., multipha	se?	No			
	, does the COC specify which phase(s) is to be analy		NA			
		, 200.	11/1			
	ract Laboratory	9	NT.			
	amples required to get sent to a subcontract laborato	-	No	8.1 		
29. was a	a subcontract laboratory specified by the client and is	r so wno?	NA	Subcontract Lab: NA4		
Client I	<u>nstruction</u>					

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E408119

Job Number: 01058-0007

Received: 8/13/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 8/16/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/16/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E408119

Date Received: 8/13/2024 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/13/2024 10:00:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@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

Table of Contents

Т	itle Page	1
С	over Page	2
Т	able of Contents	3
S	ample Summary	5
S	ample Data	6
	FS56-2'	6
	FS57-2'	7
	FS64-3'	8
	FS63-4'	9
	FS51-3'	10
	FS60-5'	11
	FS65-5'	12
	FS55-3'	13
	FS61-3'	14
	FS62-4'	15
	FS67-4'	16
	FS68-4'	17
	FS69-4'	18
	FS70-4'	19
	FS71-4'	20
Q	C Summary Data	21
	QC - Volatile Organic Compounds by EPA8260B	21
	QC - Nonhalogenated Organics by EPA 8015D - GRO	22
	QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	23
	OC - Anions by EPA 300 0/9056A	2/

Table of Contents (continued)

Definitions and Notes	25
Chain of Custody etc.	26

Sample Summary

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo08/16/24 14:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS56-2'	E408119-01A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS57-2'	E408119-02A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS64-3'	E408119-03A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS63-4'	E408119-04A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS51-3'	E408119-05A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS60-5'	E408119-06A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS65-5'	E408119-07A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS55-3'	E408119-08A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS61-3'	E408119-09A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS62-4'	E408119-10A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS67-4'	E408119-11A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS68-4'	E408119-12A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS69-4'	E408119-13A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS70-4'	E408119-14A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS71-4'	E408119-15A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS56-2' E408119-01

		2.0011, 01					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2433038
Benzene	ND	0.0250		1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250		1	08/13/24	08/13/24	
Toluene	ND	0.0250		1	08/13/24	08/13/24	
o-Xylene	ND	0.0250		1	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500		1	08/13/24	08/13/24	
Total Xylenes	ND	0.0250		1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		107 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		99.4 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		107 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		99.4 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2433042
Diesel Range Organics (C10-C28)	49.9	25.0		1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/13/24	08/13/24	
Surrogate: n-Nonane		105 %	50-200		08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2433049
Chloride	237	20.0		1	08/13/24	08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS57-2'

E408119-02

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	ı	Analyst: RKS			Batch: 2433038
Benzene	ND	0.0250	1	l	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	Į	08/13/24	08/13/24	
Toluene	ND	0.0250	1	Į	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	Į	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	Į	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	Į	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		97.5 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		97.5 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	4	Analyst:	NV		Batch: 2433042
Diesel Range Organics (C10-C28)	144	25.0	1	i	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	Į.	08/13/24	08/13/24	
Surrogate: n-Nonane		95.5 %	50-200		08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2433049
Chloride	273	20.0	1		08/13/24	08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS64-3' E408119-03

		2.00117 00				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2433038
Benzene	ND	0.0250	1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	08/13/24	08/13/24	
Surrogate: Toluene-d8		98.4 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	08/13/24	08/13/24	
Surrogate: Toluene-d8		98.4 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2433042
Diesel Range Organics (C10-C28)	42.5	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane		108 %	50-200	08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: JM		Batch: 2433049
Chloride	253	20.0	1	08/13/24	08/13/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS63-4' E408119-04

	_	Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	Analyst: RKS		Batch: 2433038
Benzene	ND	0.0250	1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	08/13/24	08/13/24	
Surrogate: Toluene-d8		97.7 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: RKS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	08/13/24	08/13/24	
Surrogate: Toluene-d8		97.7 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV		Batch: 2433042
Diesel Range Organics (C10-C28)	468	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane		100 %	50-200	08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: JM		Batch: 2433049
Chloride	374	20.0	1	08/13/24	08/13/24	

 Devon Energy - Carlsbad
 Project Name:
 Spud Muffin 31 30 334H

 6488 7 Rivers Hwy
 Project Number:
 01058-0007
 Reported:

 Artesia NM, 88210
 Project Manager:
 Ashley Giovengo
 8/16/2024
 2:57:00PM

FS51-3'

		E408119-05					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: R	KS		Batch: 2433038
Benzene	ND	0.0250	1	l	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	I	08/13/24	08/13/24	
Toluene	ND	0.0250	1	l	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	l	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	l	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	Į	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		99.0 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: R	KS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	[08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		99.0 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	V		Batch: 2433042
Diesel Range Organics (C10-C28)	481	25.0	1	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	105	50.0	1	[08/13/24	08/13/24	
Surrogate: n-Nonane		99.6 %	50-200		08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JN	М		Batch: 2433049
Chloride	465	20.0	1		08/13/24	08/13/24	·



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS60-5' E408119-06

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2433038
Benzene	ND	0.0250	1	1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	1	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	1	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	1	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		96.6 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		96.6 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2433042
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/13/24	08/13/24	
Surrogate: n-Nonane		97.2 %	50-200		08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2433049
Chloride	362	20.0	1		08/13/24	08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS65-5' E408119-07

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS			Batch: 2433038
Benzene	ND	0.0250	1		08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1		08/13/24	08/13/24	
Toluene	ND	0.0250	1		08/13/24	08/13/24	
o-Xylene	ND	0.0250	1		08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1		08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1		08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		98.7 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: RKS			Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		98.7 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: N	NV		Batch: 2433042
Diesel Range Organics (C10-C28)	ND	25.0	1		08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/13/24	08/13/24	
Surrogate: n-Nonane		89.9 %	50-200		08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: J	M		Batch: 2433049
	272	20.0	1		08/13/24	08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS55-3'

E408119-08

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2433038
Benzene	ND	0.0250	1	1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	1	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	1	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	1	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		96.5 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		96.5 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2433042
Diesel Range Organics (C10-C28)	419	25.0	1	1	08/13/24	08/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/13/24	08/15/24	
Surrogate: n-Nonane		121 %	50-200		08/13/24	08/15/24	
	/1	mg/kg		Analyst:	IM		Batch: 2433049
Anions by EPA 300.0/9056A	mg/kg	mg/kg		rinaryst.	0111		Batem 2 1880 19



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS61-3' E408119-09

Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2433038
ND	0.0250	1	08/13/24	08/13/24	
ND	0.0250	1	08/13/24	08/13/24	
ND	0.0250	1	08/13/24	08/13/24	
ND	0.0250	1	08/13/24	08/13/24	
ND	0.0500	1	08/13/24	08/13/24	
ND	0.0250	1	08/13/24	08/13/24	
	101 %	70-130	08/13/24	08/13/24	
	95.5 %	70-130	08/13/24	08/13/24	
	100 %	70-130	08/13/24	08/13/24	
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2433038
ND	20.0	1	08/13/24	08/13/24	
	101 %	70-130	08/13/24	08/13/24	
	95.5 %	70-130	08/13/24	08/13/24	
	100 %	70-130	08/13/24	08/13/24	
mg/kg	mg/kg	Ana	alyst: NV		Batch: 2433042
8170	500	20	08/13/24	08/15/24	
4180	1000	20	08/13/24	08/15/24	
	123 %	50-200	08/13/24	08/15/24	
mg/kg	mg/kg	Ana	alyst: JM		Batch: 2433049
8970	200	10	08/13/24	08/13/24	
	ND Mg/kg ND mg/kg 8170 4180	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IOI % 95.5 % 100 % 101 % 95.5 % 100 % IOI % 95.5 % 100 % 100 % mg/kg mg/kg 8170 500 4180 1000 123 % mg/kg mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Anama ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 101 % 70-130 95.5 % 70-130 100 % 70-130 mg/kg mg/kg Anama 100 % 70-130 mg/kg mg/kg Anama 8170 500 20 4180 1000 20 mg/kg mg/kg Anama mg/kg mg/kg Anama	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/13/24 ND 0.0250 1 08/13/24 ND 0.0250 1 08/13/24 ND 0.0250 1 08/13/24 ND 0.0500 1 08/13/24 ND 0.0250 1 08/13/24 ND 70-130 08/13/24 95.5 % 70-130 08/13/24 100 % 70-130 08/13/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 08/13/24 100 % 70-130 08/13/24 95.5 % 70-130 08/13/24 100 % 70-130 08/13/24 100 % 70-130 08/13/24 100 % 70-130 08/13/24 100 % 70-130 08/13/24 100 % 70-130 08/13/24 100 % 70-130	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/13/24 08/13/24 ND 0.0500 1 08/13/24 08/13/24 ND 0.0250 1 08/13/24 08/13/24 ND 0.0250 1 08/13/24 08/13/24 95.5 % 70-130 08/13/24 08/13/24 95.5 % 70-130 08/13/24 08/13/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 08/13/24 08/13/24 05.5 % 70-130 08/13/24 08/13/24 05.5 % 70-130 08/13/24 08/13/24 05.5 % 70-130 08/13/24 08/13/24 06/13/24 <t< td=""></t<>



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS62-4' E408119-10

	_	Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2433038
Benzene	ND	0.0250	1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/13/24	08/13/24	
Surrogate: Toluene-d8		98.0 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/13/24	08/13/24	
Surrogate: Toluene-d8		98.0 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2433042
Diesel Range Organics (C10-C28)	402	25.0	1	08/13/24	08/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/15/24	
Surrogate: n-Nonane		117 %	50-200	08/13/24	08/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: JM		Batch: 2433049
Chloride	368	20.0	1	08/13/24	08/13/24	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS67-4' E408119-11

		E-100117-11					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Апагусе	Result	Limit	Dilu	ition	Prepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: Rk	KS		Batch: 2433038
Benzene	ND	0.0250	1	l	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	l	08/13/24	08/13/24	
Toluene	ND	0.0250	1	[08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	[08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	[08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	l	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		97.1 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: Rk	ζS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		97.1 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: NV	V		Batch: 2433042
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/13/24	08/13/24	
Surrogate: n-Nonane		103 %	50-200		08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM	ſ		Batch: 2433049
Chloride	838	20.0	1	1	08/13/24	08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS68-4' E408119-12

	_	Reporting	_				
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2433038
Benzene	ND	0.0250	1	l	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	1	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	l	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	1	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	[08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		98.3 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg Analyst: RKS		Batch: 2433038		
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		98.3 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2433042
Diesel Range Organics (C10-C28)	ND	25.0	1		08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	[08/13/24	08/13/24	
Surrogate: n-Nonane		107 %	50-200		08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: .	JM		Batch: 2433049
Chloride	232	20.0	1	1	08/13/24	08/13/24	·



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS69-4' E408119-13

Analyte	Result	Reporting Limit	Dilut	tion Prepare	ed Analyzed	Notes
Analyte	Kesun	Lillit	Dilui	non Frepare	zu Allatyzeu	ivotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2433038
Benzene	ND	0.0250	1	08/13/2	24 08/13/24	
Ethylbenzene	ND	0.0250	1	08/13/2	24 08/13/24	
Toluene	ND	0.0250	1	08/13/2	24 08/13/24	
o-Xylene	ND	0.0250	1	08/13/2	24 08/13/24	
p,m-Xylene	ND	0.0500	1	08/13/2	24 08/13/24	
Total Xylenes	ND	0.0250	1	08/13/2	24 08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/13/2	24 08/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	08/13/2	24 08/13/24	
Surrogate: Toluene-d8		99.4 %	70-130	08/13/2	24 08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/13/2	24 08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/13/2	24 08/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	08/13/2	24 08/13/24	
Surrogate: Toluene-d8		99.4 %	70-130	08/13/2	24 08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2433042
Diesel Range Organics (C10-C28)	117	25.0	1	08/13/2	24 08/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/2	24 08/14/24	
Surrogate: n-Nonane		104 %	50-200	08/13/2	24 08/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: JM		Batch: 2433049
Chloride	733	20.0	1	08/13/2	24 08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS70-4' E408119-14

		2100117 11					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: R	KS		Batch: 2433038
Benzene	ND	0.0250	1	[08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	l	08/13/24	08/13/24	
Toluene	ND	0.0250	1	l	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	l	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	I	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	l	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		98.9 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: R	KS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		98.9 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: N	IV		Batch: 2433042
Diesel Range Organics (C10-C28)	193	25.0	1	1	08/13/24	08/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	08/13/24	08/14/24	
Surrogate: n-Nonane		102 %	50-200		08/13/24	08/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: J	M		Batch: 2433049
Chloride	1680	40.0	2	2	08/13/24	08/13/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo8/16/2024 2:57:00PM

FS71-4' E408119-15

		E100117 10					
Analyte	Result	Reporting Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2433038
Benzene	ND	0.0250	1	<u> </u>	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	l	08/13/24	08/13/24	
Toluene	ND	0.0250	1	l	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	l	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	l	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	l	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		97.6 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	_	Analyst:	RKS		Batch: 2433038
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/13/24	08/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/13/24	08/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		08/13/24	08/13/24	
Surrogate: Toluene-d8		97.6 %	70-130		08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2433042
Diesel Range Organics (C10-C28)	392	25.0	1		08/13/24	08/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	08/13/24	08/14/24	
Surrogate: n-Nonane		103 %	50-200		08/13/24	08/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: .	JM		Batch: 2433049
Chloride	338	20.0	1		08/13/24	08/13/24	

QC Summary Data

Spud Muffin 31 30 334H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 8/16/2024 2:57:00PM Volatile Organic Compounds by EPA 8260B Analyst: RKS Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2433038-BLK1) Prepared: 08/13/24 Analyzed: 08/13/24 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 o-Xylene ND 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.517 0.500 103 70-130 Surrogate: 1,2-Dichloroethane-d4 0.487 0.500 97.3 70-130 0.490 0.500 97.9 70-130 Surrogate: Toluene-d8 LCS (2433038-BS1) Prepared: 08/13/24 Analyzed: 08/13/24 Benzene 2.31 0.0250 2.50 92.4 70-130

Matrix Spike (2433038-MS1)				Source: E408119-09)	Prepared: 08/13/24 Analyzed: 08/13/24
Surrogate: Toluene-d8	0.500		0.500	99.9	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500	95.8	70-130	
Surrogate: Bromofluorobenzene	0.508		0.500	102	70-130	
Total Xylenes	7.23	0.0250	7.50	96.4	70-130	
p,m-Xylene	4.83	0.0500	5.00	96.6	70-130	
o-Xylene	2.40	0.0250	2.50	96.0	70-130	
Toluene	2.28	0.0250	2.50	91.3	70-130	
Ethylbenzene	2.46	0.0250	2.50	98.3	70-130	

Matrix Spike (2433038-MS1)				Source:	: E408119-	09	Prepared: 08/13/24 Analyzed: 08/13/24
Benzene	2.28	0.0250	2.50	ND	91.2	48-131	
Ethylbenzene	2.45	0.0250	2.50	ND	97.8	45-135	
Toluene	2.24	0.0250	2.50	ND	89.7	48-130	
o-Xylene	2.48	0.0250	2.50	ND	99.3	43-135	
p,m-Xylene	4.98	0.0500	5.00	ND	99.6	43-135	
Total Xylenes	7.46	0.0250	7.50	ND	99.5	43-135	
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130	
Surrogate: Toluene-d8	0.490		0.500		98.0	70-130	

Matrix Spike Dup (2433038-MSD1)				Source:	Source: E408119-09		Prepared: 08/13/24 Analyzed: 08/13/2	
Benzene	2.49	0.0250	2.50	ND	99.8	48-131	8.97	23
Ethylbenzene	2.48	0.0250	2.50	ND	99.2	45-135	1.38	27
Toluene	2.33	0.0250	2.50	ND	93.3	48-130	3.93	24
o-Xylene	2.56	0.0250	2.50	ND	102	43-135	2.86	27
p,m-Xylene	5.11	0.0500	5.00	ND	102	43-135	2.49	27
Total Xylenes	7.66	0.0250	7.50	ND	102	43-135	2.61	27
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130		
Surrogate: Toluene-d8	0.487		0.500		97.4	70-130		

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

Spud Muffin 31 30 334H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 8/16/2024 2:57:00PM

Nonhalogenated	Organics	by EPA	8015D - GRO
i tommingement	0 - 5	~,	00102 0110

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	%	%	%	⁹ 0	Notes
Blank (2433038-BLK1)							Prepared: 0	8/13/24 Anal	yzed: 08/13/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			
LCS (2433038-BS2)							Prepared: 0	8/13/24 Anal	yzed: 08/13/24
Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		93.1	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
Matrix Spike (2433038-MS2)				Source:	E408119-0)9	Prepared: 0	8/13/24 Anal	yzed: 08/13/24
Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130			
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			
Matrix Spike Dup (2433038-MSD2)				Source:	E408119-0)9	Prepared: 0	8/13/24 Anal	yzed: 08/13/24
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130	5.68	20	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			

0.500

0.500

0.478

0.501

95.5

100

70-130

70-130



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/16/2024 2:57:00PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			8/1	6/2024 2:57:00PM
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433042-BLK1)							Prepared: 0	8/13/24 Anal	yzed: 08/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	50-200			
LCS (2433042-BS1)							Prepared: 0	8/13/24 Anal	yzed: 08/13/24
Diesel Range Organics (C10-C28)	308	25.0	250		123	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			
Matrix Spike (2433042-MS1)				Source:	E408119-0	08	Prepared: 0	8/13/24 Anal	yzed: 08/15/24
Diesel Range Organics (C10-C28)	787	25.0	250	419	147	38-132			M4
Surrogate: n-Nonane	61.4		50.0		123	50-200			
Matrix Spike Dup (2433042-MSD1)				Source:	E408119-0	08	Prepared: 0	8/13/24 Anal	yzed: 08/15/24
Diesel Range Organics (C10-C28)	677	25.0	250	419	103	38-132	15.1	20	
Surrogate: n-Nonane	61.7		50.0		123	50-200			



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		Spud Muffin 31 01058-0007	30 334H				Reported:
Artesia NM, 88210		Project Manager	: A	Ashley Gioveng	go				8/16/2024 2:57:00PM
		Anions	by EPA	300.0/9056	4				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433049-BLK1)							Prepared: 0	8/13/24 <i>A</i>	Analyzed: 08/13/24
Chloride	ND	20.0							
LCS (2433049-BS1)							Prepared: 0	8/13/24 A	Analyzed: 08/13/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2433049-MS1)				Source:	E408119-0)9	Prepared: 0	8/13/24 A	Analyzed: 08/13/24
Chloride	8130	200	250	8970	NR	80-120			M4
Matrix Spike Dup (2433049-MSD1)				Source:	E408119-0)9	Prepared: 0	8/13/24 A	Analyzed: 08/13/24
Chloride	10200	200	250	8970	481	80-120	22.3	20	M4, R3

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:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/16/24 14:57

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.



	Clie	nt Inform	nation			Invoice Info	ormation					La	b Us	se Or	nly				TA	T			Stat	e
Client: [Devon					Company: Devon			L	Lab \	WO#	†		Job				1D	2D	3D St	d	NM	CO UT	TX
Project:	Spud Muffir	31 30 #3	334H			Address: 205 E Bender	r Road #150				08			010	58-	-000	07			х		x		
Project N	Manager: As	hley Giov	engo			City, State, Zip: Hobbs	NM, 88240					-			-									
Address	: 3122 Natio	nal Parks	Hwy			Phone: (575)748-1838								Ana	lysis	and	Met	thod				E	PA Progra	am
City, Sta	te, Zip: Carls	bad NM,	88220			Email: dale.woodall@	@dvn.com			1											S	DWA	CWA	RCRA
Phone:	575-988-005	55			r	Miscellaneous: Dale Wo	odall																	
Email: a	giovengo@e	nsolum.c	com								Ŋ	r)									Co	mplian	ice Y	or N
	7 1110										8015	8015	_		0.		_	5			PV	WSID#		
				Sam	ple Inform	ation					O by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	ICEQ 1005 - TX	RCRA 8 Metals						
Time	Date Sampled	Matrix	No. of			Sample ID		Pie	Lat Numl	b	DRO/ORO	ND/DR	X by	þ	oride	200	2 100	A 8					Remarks	;
Sampled	Date Sampled	IVIALITY	Container			Sample 10		Fie	Numl	ber	DRC	GRC	BTE	00	SH	BGE	TCEC	RCR						
10:00	8/9/2024	Soil	1			FS56 - 2'			1							х								
10:02	8/9/2024	Soil	1			FS57 - 2'			2							х								
11:50	8/9/2024	Soil	1			FS64 - 3'			3							х								
13:37	8/9/2024	Soil	1			FS63 - 4'			4							х								
14:49	8/9/2024	Soil	1			FS51 - 3'			5							х								
14:47	8/9/2024	Soil	1			FS60 - 5'			6							х								
14:50	8/9/2024	Soil	1			FS65 - 5'			7							х								
16:40	8/9/2024	Soil	1			FS55 - 3'			8							х								
	0/0/2024							-	0												_			
15:43	8/9/2024	Soil	1			FS61 - 3'			9							x								
17:22	8/9/2024	Soil	1			FS62 - 4'			10							х								
Addition	nal Instruction	ns: Ple	ase CC:	cburton@e	ensolum.co	m, agiovengo@ensolu	m.com, dale	e.wc	odall@	dvr	n.cor	m, ies	strel	la@e	ensol	um.	com,	bde	al@ei	nsolum	.con	1,		
100	on@ensolun								11.00			-							-			P		
I, (field sam	pler), attest to th	e validity and	d authentic	ity of this samp	ole. I am aware	that tampering with or intentio	nally mislabeling	the s	ample loca	ation,	date	or time	e of co	llectio	n is co	nsider	ed frau	ud and	may be	grounds	for leg	al action		
Sampled by	: _Brandon Deal_																							
Relinquish	ned by: (Signatu	ire)	Da	112/24	Time	Received by: (Signature)	Date	e 11 1	11	Time	-110	_										d on ice the da 0 but less tha	
1/10	11/				9:309	A CLIB AIDA ALL A LA	ongales	8.	12-2	7	- 1	040	>			subse	quent d	lavs	packed				D Dut less tha	10 COII
Volice	hed by (Signatu	onzal	es 8	1224	1545		lego I	Bate	.12.1	ч	Time	62	0			Rec	eive	d on	ice:	(ab		Only		
Relinquist	ed by: (Signatu	1280	Da		Time 2500	Received by: (Signature	2)	Date	-13-2	4	Time 10	0				T1				T2			<u>T3</u>	
Relinquish	ned by: (Signatu	ire)	Da		Time	Received by: (Signature	e)	Date		•	Time					ΔΜ	Ter	nn °C	4					
Sample Ma	trix: S - Soil, Sd - S	Solid, Sg - Slu	idge, A - Ai	ueous, 0 - Oth	er			Coi	ntainer	Туре	2: g -	glass	, p - 1	ooly/i	plasti					- VOA				
- Andrews						her arrangements are made	. Hazardous sa					-						_			rt for	the ana	lysis of the	above
						vith this COC. The liability of													and the same of	Green's Alle	- 10-22-Ca	ag invavi,		

(3

envirotech

Released to Imaging: 10/17/2024 1:34:05 PM

_	-
	7
	0
	\sim
	23
	10
	~
	6
	2
	-
	6
	2
	-
	-
	\sim
	~
	()
	-
	<u> </u>
	٠,
	6
	-
	× ×
	~ 1
	1.1
	~
	9
	~
	1
	4
	S
	11
	9
	4
	N.
	27
	2
	7
	~
	Z
	-

	Clie	nt Inform	nation			Invoice Information					Lal	o Us	e On	ıly				T	AT		State	
Client: D	evon				C	ompany: Devon		L	ab W	VO#			Job	Num	ber		1D	2D	3D !	Std	NM CO UT	TX
	Spud Muffin	31 30 #3	34H		_ Ā	ddress: 205 E Bender Road #15	0				119			58-		7				K	x	
	/lanager: As				100	ity, State, Zip: Hobbs NM, 8824					,,,,			-	-			1	1213	_		
	3122 Natio					none: (575)748-1838			Г				Ana	lysis	and	Met	hod				EPA Program	n
	e, Zip: Carls					mail: dale.woodall@dvn.com		_	-				7 1110	,,,,,,	-		1				SDWA CWA	RCRA
	575-988-005		00220					_		1				1				y .		1	JOWA CWA	RCIA
			2.02			scellaneous: Dale Woodall		- 1	- 10									v v		1	Compliance Y	or N
Email: a	giovengo@e	nsolum.c	om							015	015											or N
										by 8	8 Ac	21	00	0.00	Σ	×	tals				PWSID#	
				Sam	ple Informat	ion		T		8	80	y 80	/ 82(le 30	Z -	- 500	Me					
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb	per	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				Remarks	
15:34	8/9/2024	Soil	1			FS67 - 4'		11							x							
15:32	8/9/2024	Soil	1			FS68 - 4'	N T	12							x							
15:38	8/9/2024	Soil	1			FS69 - 4'		13							х							
15:36	8/9/2024	Soil	1			FS70 - 4'		14							х							
15:54	8/9/2024	Soil	1			FS71 - 4'		15							х							
chamilto I, (field sam	on@ensolum pler), attest to the	.com, bs	immons@	ensolun	n.com	n, agiovengo@ensolum.com, da at tampering with or intentionally mislabeli																
201-201-201-201-201-201-201-201-201-201-	: _Brandon Deal_								-													
Alle	ed by: (Signatu		Date %/	12/2024	9:30 am		Date 8	12-29		Time	045	5			sampl		eceived				ust be received on ice the day t g temp above 0 but less than 6	750000000000000000000000000000000000000
VV(ic	ed by (Signatu	ongo		12-24	1545	Received by: (Signature)		12.2	4		3	0			Rec	eive	d on	ice:		b Us)/ N	se Only	
ch	ed by: (Signatu	4880	Date	12.74	Time 2300	Received by: (Signature)	Date 8	13-2		Time 160	00				<u>T1</u>				<u>T2</u>		<u>T3</u>	
	ed by: (Signatu		Date		Time	Received by: (Signature)	Date		1	Time							np °C					
	trix: S - Soil, Sd - S							tainer		7.00 7.50	5 10 March 1997				COLUMN							
						er arrangements are made. Hazardous											nt exp	ense.	The re	port	for the analysis of the a	bove

envirotecles

envirotecles

envirotecles

envirotecles

Page 239 of 298

envirotech Inc.

Printed: 8/13/2024 10:04:30AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

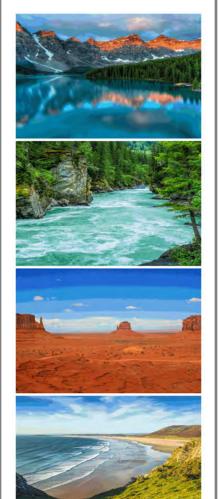
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	08/13/24	10:00		Work Order ID:	E408119
Phone:	(505) 382-1211	Date Logged In:	08/12/24	15:43		Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	08/19/24	17:00 (4 day TAT)			
Chain o	f Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
2. Does	the number of samples per sampling site location man	tch the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	ourier		
4. Was tl	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssi	•	Yes			Comment	s/Resolution
Sample	Turn Around Time (TAT)			Γ			
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	•						
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
•	ne sample(s) received intact, i.e., not broken?						
	* * * * * * * * * * * * * * * * * * * *		Yes				
	custody/security seals present?		No				
-	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling	e received w/i 15	Yes				
	visible ice, record the temperature. Actual sample	temperature: 4°	<u>C</u>				
	<u>Container</u>						
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers		Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field La							
	e field sample labels filled out with the minimum info	ormation:	3 7				
	Sample ID? Date/Time Collected?		Yes	L			
	Collectors name?		Yes Yes				
	Preservation		108				
	the COC or field labels indicate the samples were pr	reserved?	No				
	sample(s) correctly preserved?		NA				
	o filteration required and/or requested for dissolved n	netals?	No				
	ase Sample Matrix		110				
		aa9	N				
	the sample have more than one phase, i.e., multipha		No				
27. II ye	s, does the COC specify which phase(s) is to be analy	yzeu:	NA				
	ract Laboratory						
	samples required to get sent to a subcontract laborato	•	No				
29. Was	a subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	: NA		
Client l	<u>nstruction</u>						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E408167

Job Number: 01058-0007

Received: 8/20/2024

Revision: 3

Report Reviewed By:

Walter Hinchman Laboratory Director 9/13/24

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: 9/13/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E408167

Date Received: 8/20/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/20/2024 5:00:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS15 - 2'	5
FS33 - 1.5'	6
FS34 - 1.5'	7
FS49 - 1.5'	8
FS50 - 1.5'	9
FS52 - 1.5'	10
SW04 - 0-1'	11
SW05 - 0-4'	12
BH04 - 0'	13
BH04 - 2'	14
BH04 - 4'	15
QC Summary Data	16
QC - Volatile Organic Compounds by EPA8260B	16
QC - Nonhalogenated Organics by EPA 8015D - GRO	17
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	18
QC - Anions by EPA 300.0/9056A	19
Definitions and Notes	20
Chain of Custody etc	21

Sample Summary

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Donoutoda
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/13/24 10:06

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS15 - 2'	E408167-01A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
FS33 - 1.5'	E408167-02A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
FS34 - 1.5'	E408167-03A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
FS49 - 1.5'	E408167-04A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
FS50 - 1.5'	E408167-05A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
FS52 - 1.5'	E408167-06A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
SW04 - 0-1'	E408167-07A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
SW05 - 0-4'	E408167-08A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
BH04 - 0'	E408167-09A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
BH04 - 2'	E408167-10A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
BH04 - 4'	E408167-11A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

FS15 - 2' E408167-01

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2434023
Benzene	ND	0.0250		1	08/20/24	08/20/24	
Ethylbenzene	ND	0.0250		1	08/20/24	08/20/24	
Toluene	ND	0.0250		1	08/20/24	08/20/24	
o-Xylene	ND	0.0250		1	08/20/24	08/20/24	
p,m-Xylene	ND	0.0500		1	08/20/24	08/20/24	
Total Xylenes	ND	0.0250		1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.6 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		103 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2434023
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.6 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		103 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2434028
Diesel Range Organics (C10-C28)	ND	25.0		1	08/20/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/20/24	08/20/24	
Surrogate: n-Nonane		104 %	50-200		08/20/24	08/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2434034
Chloride	20.4	20.0		1	08/20/24	08/20/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

FS33 - 1.5' E408167-02

		E400107-02				
Anglista	Result	Reporting Limit	Diluti	ion Dromor-1	A malkyra J	Notes
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2434023
Benzene	ND	0.0250	1	08/20/24	08/20/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/20/24	
Toluene	ND	0.0250	1	08/20/24	08/20/24	
o-Xylene	ND	0.0250	1	08/20/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.8 %	70-130	08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/20/24	08/20/24	
Surrogate: Toluene-d8		104 %	70-130	08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2434023
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.8 %	70-130	08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/20/24	08/20/24	
Surrogate: Toluene-d8		104 %	70-130	08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	Analyst: NV		Batch: 2434028
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/20/24	
Surrogate: n-Nonane		113 %	50-200	08/20/24	08/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: DT		Batch: 2434034
-					•	

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

FS34 - 1.5' E408167-03

		E400107-05				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Diluti	ion riepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2434023
Benzene	ND	0.0250	1	08/20/24	08/20/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/20/24	
Toluene	ND	0.0250	1	08/20/24	08/20/24	
o-Xylene	ND	0.0250	1	08/20/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.9 %	70-130	08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	08/20/24	08/20/24	
Surrogate: Toluene-d8		105 %	70-130	08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2434023
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.9 %	70-130	08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	08/20/24	08/20/24	
Surrogate: Toluene-d8		105 %	70-130	08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2434028
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/20/24	
Surrogate: n-Nonane		114 %	50-200	08/20/24	08/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2434034
Chloride	175	20.0	1	08/20/24	08/20/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

FS49 - 1.5' E408167-04

Notes Batch: 2434023
Batch: 2434023
Batch: 2434023
Batch: 2434028
Batch: 2434034

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

FS50 - 1.5' E408167-05

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2434023
Benzene	ND	0.0250	1	1	08/20/24	08/20/24	
Ethylbenzene	ND	0.0250	1	1	08/20/24	08/20/24	
Toluene	ND	0.0250	1	1	08/20/24	08/20/24	
o-Xylene	ND	0.0250	1	1	08/20/24	08/20/24	
p,m-Xylene	ND	0.0500	1	1	08/20/24	08/20/24	
Total Xylenes	ND	0.0250	1	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		98.0 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		105 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2434023
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		98.0 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		105 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2434028
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/20/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/20/24	08/20/24	
Surrogate: n-Nonane		111 %	50-200		08/20/24	08/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2434034
Chloride	150	20.0	1	1	08/20/24	08/20/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

FS52 - 1.5' E408167-06

		E400107-00					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Anaiyu	Result	Lillit	Dilu	111011	1 repared	Analyzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: Γ	Y		Batch: 2434023
Benzene	ND	0.0250	1	l	08/20/24	08/20/24	
Ethylbenzene	ND	0.0250	1	l	08/20/24	08/20/24	
Toluene	ND	0.0250	1	l	08/20/24	08/20/24	
o-Xylene	ND	0.0250	1	l	08/20/24	08/20/24	
p,m-Xylene	ND	0.0500	1	l	08/20/24	08/20/24	
Total Xylenes	ND	0.0250	1	l	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.8 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		106 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: Γ	Y		Batch: 2434023
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.8 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		106 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: N	IV		Batch: 2434028
Diesel Range Organics (C10-C28)	ND	25.0	1		08/20/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	08/20/24	08/20/24	
Surrogate: n-Nonane		108 %	50-200		08/20/24	08/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: [DΤ		Batch: 2434034
Chloride	20.1	20.0	1		08/20/24	08/20/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

SW04 - 0-1' E408167-07

	E-100107-07				
	Reporting				
Result	Limit	Diluti	ion Prepared	Analyzed	Notes
mg/kg	mg/kg	A	Analyst: IY		Batch: 2434023
ND	0.0250	1	08/20/24	08/20/24	
ND	0.0250	1	08/20/24	08/20/24	
ND	0.0250	1	08/20/24	08/20/24	
ND	0.0250	1	08/20/24	08/20/24	
ND	0.0500	1	08/20/24	08/20/24	
ND	0.0250	1	08/20/24	08/20/24	
	95.9 %	70-130	08/20/24	08/20/24	
	94.6 %	70-130	08/20/24	08/20/24	
	104 %	70-130	08/20/24	08/20/24	
mg/kg	mg/kg	A	Analyst: IY		Batch: 2434023
ND	20.0	1	08/20/24	08/20/24	
	95.9 %	70-130	08/20/24	08/20/24	
	94.6 %	70-130	08/20/24	08/20/24	
	104 %	70-130	08/20/24	08/20/24	
mg/kg	mg/kg	A	Analyst: NV		Batch: 2434028
ND	25.0	1	08/20/24	08/20/24	
ND	50.0	1	08/20/24	08/20/24	
	105 %	50-200	08/20/24	08/20/24	
mg/kg	mg/kg	A	Analyst: DT		Batch: 2434034
	ND	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 95.9 % 94.6 % 104 % 104 % mg/kg mg/kg ND 20.0 mg/kg mg/kg ND 25.0 ND 50.0 105 %	Result Limit Dilut mg/kg mg/kg A ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 95.9 % 70-130 94.6 % 70-130 104 % 70-130 mg/kg mg/kg ND 20.0 1 95.9 % 70-130 94.6 % 70-130 104 % 70-130 mg/kg mg/kg ND 25.0 1 ND 50.0 1 105 % 50-200	Reporting Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 08/20/24 ND 0.0250 1 08/20/24 ND 0.0250 1 08/20/24 ND 0.0500 1 08/20/24 ND 0.0250 1 08/20/24 ND 0.0250 1 08/20/24 95.9 % 70-130 08/20/24 94.6 % 70-130 08/20/24 104 % 70-130 08/20/24 95.9 % 70-130 08/20/24 MD 20.0 1 08/20/24 94.6 % 70-130 08/20/24 104 % 70-130 08/20/24 104 % 70-130 08/20/24 mg/kg mg/kg Analyst: NV ND 25.0 1 08/20/24 ND 50.0 1 08/20/24 ND 50.0 1	Reporting Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 08/20/24 08/20/24 ND 0.0500 1 08/20/24 08/20/24 ND 0.0250 1 08/20/24 08/20/24 ND 0.0250 1 08/20/24 08/20/24 95.9 % 70-130 08/20/24 08/20/24 94.6 % 70-130 08/20/24 08/20/24 mg/kg mg/kg Analyst: IY ND 20.0 1 08/20/24 08/20/24 94.6 % 70-130 08/20/24 08/20/24 94.6 % 70-130 08/20/24 08/20/24 mg/kg mg/kg Analyst: NV ND <



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

SW05 - 0-4' E408167-08

		E400107-00					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: Γ	Y		Batch: 2434023
Benzene	ND	0.0250	1	1	08/20/24	08/20/24	
Ethylbenzene	ND	0.0250	1	1	08/20/24	08/20/24	
Toluene	ND	0.0250	1	1	08/20/24	08/20/24	
o-Xylene	ND	0.0250	1	1	08/20/24	08/20/24	
p,m-Xylene	ND	0.0500	1	1	08/20/24	08/20/24	
Total Xylenes	ND	0.0250	1	l	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.6 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		103 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: Γ	Y		Batch: 2434023
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.6 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		103 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	IV		Batch: 2434028
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/20/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/20/24	08/20/24	
Surrogate: n-Nonane		101 %	50-200		08/20/24	08/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: [DΤ		Batch: 2434034
Chloride	ND	20.0	1	1	08/20/24	08/20/24	



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

BH04 - 0' E408167-09

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY			Batch: 2434023
Benzene	ND	0.0250	1		08/20/24	08/20/24	
Ethylbenzene	ND	0.0250	1		08/20/24	08/20/24	
Toluene	ND	0.0250	1		08/20/24	08/20/24	
o-Xylene	ND	0.0250	1		08/20/24	08/20/24	
p,m-Xylene	ND	0.0500	1		08/20/24	08/20/24	
Total Xylenes	ND	0.0250	1		08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		96.9 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		106 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst:	IY		Batch: 2434023
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		96.9 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		106 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: NV				Batch: 2434028
Diesel Range Organics (C10-C28)	1500	50.0	2		08/20/24	08/21/24	
Oil Range Organics (C28-C36)	987	100	2		08/20/24	08/21/24	
Surrogate: n-Nonane		113 %	50-200		08/20/24	08/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst:	DT		Batch: 2434034
Chloride	5020	200	10	`	08/20/24	08/20/24	

Sample Data

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

BH04 - 2' E408167-10

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	Analyst: IY		Batch: 2434023
Benzene	ND	0.0250	1	08/20/24	08/20/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/20/24	
Toluene	ND	0.0250	1	08/20/24	08/20/24	
o-Xylene	ND	0.0250	1	08/20/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.9 %	70-130	08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/20/24	08/20/24	
Surrogate: Toluene-d8		107 %	70-130	08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: IY		Batch: 2434023
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.9 %	70-130	08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/20/24	08/20/24	
Surrogate: Toluene-d8		107 %	70-130	08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	Analyst: NV		Batch: 2434028
Diesel Range Organics (C10-C28)	39.4	25.0	1	08/20/24	08/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/21/24	
Surrogate: n-Nonane		116 %	50-200	08/20/24	08/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	Analyst: DT		Batch: 2434034
Chloride	301	20.0	1	08/20/24	08/20/24	

Sample Data

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334H6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

BH04 - 4' E408167-11

Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Лиаус	Kesuit	Liillit			•	Allalyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2434023
Benzene	ND	0.0250		1	08/20/24	08/20/24	
Ethylbenzene	ND	0.0250		1	08/20/24	08/20/24	
Toluene	ND	0.0250		1	08/20/24	08/20/24	
o-Xylene	ND	0.0250		1	08/20/24	08/20/24	
p,m-Xylene	ND	0.0500		1	08/20/24	08/20/24	
Total Xylenes	ND	0.0250	1	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.2 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		107 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2434023
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		97.2 %	70-130		08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		08/20/24	08/20/24	
Surrogate: Toluene-d8		107 %	70-130		08/20/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2434028
Diesel Range Organics (C10-C28)	ND	25.0		1	08/20/24	08/21/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/20/24	08/21/24	
Surrogate: n-Nonane		116 %	50-200		08/20/24	08/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2434034
Chloride	158	20.0		1	08/20/24	08/20/24	



Devon Energy - Carlsbad Project Name: Spud Muffin 31 30 334H Reported:
6488 7 Rivers Hwy Project Number: 01058-0007
Artesia NM, 88210 Project Manager: Ashley Giovengo 9/13/2024 10:06:19AM

Artesia NM, 88210		Project Manager	r: As	shley Gioveng	50			9/13	3/2024 10:06:19AN
	V	olatile Organi	ic Compo	unds by EP	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434023-BLK1)							Prepared: 0	8/20/24 Analy	yzed: 08/20/24
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	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			
LCS (2434023-BS1)							Prepared: 0	8/20/24 Analy	yzed: 08/20/24
Benzene	2.36	0.0250	2.50		94.5	70-130			
Ethylbenzene	2.38	0.0250	2.50		95.1	70-130			
Toluene	2.40	0.0250	2.50		96.0	70-130			
p-Xylene	2.28	0.0250	2.50		91.4	70-130			
o,m-Xylene	4.59	0.0500	5.00		91.9	70-130			
Total Xylenes	6.88	0.0250	7.50		91.7	70-130			
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			
Matrix Spike (2434023-MS1)				Source:	E408164-	01	Prepared: 0	8/20/24 Analy	yzed: 08/20/24
Benzene	2.25	0.0250	2.50	ND	90.0	48-131			
Ethylbenzene	2.31	0.0250	2.50	ND	92.3	45-135			
Toluene	2.29	0.0250	2.50	ND	91.6	48-130			
p-Xylene	2.18	0.0250	2.50	ND	87.1	43-135			
o,m-Xylene	4.45	0.0500	5.00	ND	89.1	43-135			
Total Xylenes	6.63	0.0250	7.50	ND	88.4	43-135			
Surrogate: Bromofluorobenzene	0.513	·	0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
Matrix Spike Dup (2434023-MSD1)				Source: E408164-01 Pr			Prepared: 0	8/20/24 Analy	yzed: 08/20/24
Benzene	2.35	0.0250	2.50	ND	94.0	48-131	4.35	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.4	45-135	2.34	27	
Toluene	2.35	0.0250	2.50	ND	94.0	48-130	2.56	24	
o-Xylene	2.21	0.0250	2.50	ND	88.3	43-135	1.39	27	
p,m-Xylene	4.49	0.0500	5.00	ND	89.9	43-135	0.883	27	
Total Xylenes	6.70	0.0250	7.50	ND	89.4	43-135	1.05	27	
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			



0.500

104

70-130

0.520

Surrogate: Toluene-d8

Devon Energy - Carlsbad Spud Muffin 31 30 334H Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 9/13/2024 10:06:19AM

Nonhalogenated	Organics by	v EPA 8015D	- GRO

Analyst: IY

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

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434023-BLK1)							Prepared: 08	3/20/24 <i>A</i>	Analyzed: 08/20/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			
LCS (2434023-BS2)							Prepared: 08	3/20/24 A	Analyzed: 08/20/24
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	·	93.3	70-130	·	·	·
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			
Matrix Spike (2434023-MS2)				Source:	E408164-	01	Prepared: 08	3/20/24 A	Analyzed: 08/20/24
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.1	70-130			
Surrogate: Bromofluorobenzene	0.472		0.500		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
Matrix Spike Dup (2434023-MSD2)				Source:	E408164-	01	Prepared: 08	3/20/24 <i>A</i>	Analyzed: 08/20/24
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.6	70-130	8.07	20	
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo9/13/2024 10:06:19AM

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go			9/	13/2024 10:06:19A
	Nonhal	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434028-BLK1)							Prepared: 0	8/20/24 Ana	llyzed: 08/20/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.5		50.0		111	50-200			
LCS (2434028-BS1)							Prepared: 0	8/20/24 Ana	lyzed: 08/20/24
Diesel Range Organics (C10-C28)	210	25.0	250		83.9	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			
Matrix Spike (2434028-MS1)				Source:	E408167-	02	Prepared: 0	8/20/24 Ana	lyzed: 08/20/24
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.1	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			
Matrix Spike Dup (2434028-MSD1)				Source:	E408167-	02	Prepared: 0	8/20/24 Ana	lyzed: 08/20/24
Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.8	38-132	0.313	20	
Surrogate: n-Nonane	57.1		50.0		114	50-200			

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager	Number: 01058-0007					9.	Reported: /13/2024 10:06:19AM
		Anions	by EPA	300.0/9056	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434034-BLK1)						F	repared: 0	8/20/24 An	alvzed: 08/20/24

	mg/kg	mg/kg	mg/kg	mg/kg	70	70	70	70	Notes
Blank (2434034-BLK1)							Prepared: 0	8/20/24 A	nalyzed: 08/20/24
Chloride	ND	20.0							
LCS (2434034-BS1)							Prepared: 0	8/20/24 A	nalyzed: 08/20/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2434034-MS1)				Source:	E408164-0)9	Prepared: 0	8/20/24 A	nalyzed: 08/20/24
Chloride	293	20.0	250	38.5	102	80-120			
Matrix Spike Dup (2434034-MSD1)				Source:	E408164-0)9	Prepared: 0	8/20/24 A	nalyzed: 08/20/24
Chloride	298	20.0	250	38.5	104	80-120	1.58	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:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/13/24 10:06

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.



	Clie	nt Inform	nation			Invoice Information				Lab Use Only						TAT					State			2			
Client: [Devon					Company: Devon			L	ab V	NO#			Job	Num	mber 1D 2D 3D Std						NM CO	UT	TX			
Project:	Spud M	luffiin 31	-30 334H	k.		ddress: 205 E Bender	r Road #150					6	1	olo	58	x 1000-8						x					
Project N	Manager: As	hley Giov	engo			ity, State, Zip: Hobbs	NM, 88240																				
Address	3122 Natio	nal Parks	Hwy		P	hone: (575)748-1838			Ana						nalysis and Method							EPA P	rogra	m			
	te, Zip: Carls					mail: dale.woodall@	@dvn.com														SD	WA C	WA	RCRA			
Phone:	575-988-005	5			M	Miscellaneous: Dale Woodall																					
Email: a	giovengo@e	nsolum.c	om								15	15									Com	pliance	Y	or N			
											y 80	8015	н	_	0.0		×	als			PW.	SID#					
				Sam	ple Informat	tion					RO b	RO b	y 802	826	e 300	N	1-50	Met					-				
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID		Field Filter and er		per	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Rer	narks				
10:25	8/16/2024	Soil	1			FS15 - 2'			1							х											
11:33	8/16/2024	Soil	1			FS33 - 1.5'			2							x											
11:34	8/16/2024	Soil	1			FS34 - 1.5'			3							х											
12:00	8/16/2024	Soil	1		FS49 - 1.5'				4							х											
12:01	8/16/2024	Soil	1		FS50 - 1.5'				5							х											
12:03	8/16/2024	Soil	1		FS52 - 1.5'				6							x											
10:30	8/16/2024	Soil	1		SW04 - 1'				7							х											
9:28	8/16/2024	Soil	1			SW05 - 0-4'			8							х											
10:30	8/16/2024	Soil	1			BH04 - 0'			9							х											
10:35	8/16/2024	Soil	1			BH04 - 2'			(T)						х											
Addition	nal Instruction	ns: Ple	ase CC: c	burton@e	ensolum.con	n, agiovengo@ensolu	m.com, dale	e.wo	odall@	dvn	ı.cor	n, ch	ami	lton(@ens	olur	n.cor	m, ie	strel	la@enso	lum.	com					
	1.1	to to		f.111	1 1	hat tampering with or intentio	a a lle a state te a tie a	Ab	male less	-41	4-4-			Hantin	n la eni	naldon	ad frag	id and	mau b	a graunde fe	r logal	action					
	:_Cole Burton_	e validity and	a authentich	y or this samp	ne. Tam aware u	nat tampering with or intentio	many misiabening	tile sa	imple loca	ation,	uate	OI CITIE	e or cc	mectio	11 15 CO	isidei	eu mac	id and	may D	e grounds it	n iegai	action.					
22-20-60 ASS - 24-60 ASS - 24-60	K-SH SH C/A	ral	Date		Time	Dagained by Signature	L - lec	Date			Time		-			Samp	es requ	iring th	nermal i	oreservation r	nust be	received on ic	e the da	y they are			
Keiiriquisi	ned by: (Signatu	d.		/19/24	8-15	Received by: (Signature	onzaver	X-	19-2	4	DS	DXIS		0815		DXIS				ampled or received packed in ice at an a							
Relimauish	ned by:#Signato	Re)			Time	Received by: Signature)		19.2		Time			-		subse	quent d	lavs		Labl	se O	nlv					
0	ned by: (Signatu	U	les 8	19:24	1940	1940 A.M.					19	40				Received on ic		Lab Use Only on ice: N									
c /	ned by: (Signatu		-	20.24	0415	Time Received by: (Signature) Received by: (Signature)				24	1 0500				<u>T1 </u>												
Relinquish	ned by: (Signatu	re)	Date		Time	Date			Time						i Ten			1_									
	trix: S - Soil, Sd - S								tainer																		
						er arrangements are made											e clie	nt exp	ense.	The repor	t for t	ne analysis	of the	above			
samples is	applicable only	to those s	samples rea	ceived by the	e laboratory wi	th this COC. The liability of	the laboratory	is lim	ited to t	the a	mour	nt paid	d for a	on the	repo	rt.											

(3

envirotech

-
~
0
-
7.3
6
Cont o
~
0
ã
-
-
3
~
0
2.4
٠.
-
10
9
N
1
1/3
6
1
4
444
CU
111
O
54
N
-50
N
P

	Clier	nt Inform	ation			Invoice Information	1				La	b Us	e On	ly				TA	T	State	e
Client: D	evon					ompany: Devon			Lab \	NO#			Job I	Num	ber		1D	2D	3D Std	NM CO UT	TX
Project:	TO STATE OF THE ST	uffiin 31-	30 334H			ddress: 205 E Bender Road #	150			08	lh.				-00	רח			x	x	
Dark to Print Ze	Manager: Ash					ity, State, Zip: Hobbs NM, 883						-	-								
	3122 Nation				100	none: (575)748-1838			Γ				Ana	lysis	and	Met	hod	_		EPA Progra	am
	e, Zip: Carls					Email: dale.woodall@dvn.co	m		+	T			71112	.,5.5						SDWA CWA	RCRA
			00220				11	-												JOVA CVA	Henry
	575-988-005		ALC: S		MI	scellaneous: Dale Woodall														Compliance Y	or N
Email: a	giovengo@e	nsolum.c	om				-		- 1	015	015										or N
						•				by 8	by 8	171	09	0.00	Σ	×	stals			PWSID#	
				Sam	ple Informat	ion		1		80	8	y 80	/ 82	le 3(2	- 500	Me			20000	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	La Num	60	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			Remarks	
10:41	8/16/2024	Soil	1			BH04 - 4'		11							х						
							0														
							1														
							7														
Addition	al Instructio	ns: Plea	se CC: cb	urton@e	ensolum.con	n, agiovengo@ensolum.com,	dale.wo	odall@	@dvr	n.cor	n, ch	amil	ton@	ens	olun	n.cor	m, ies	strell	a@enso	lum.com	
		e validity and	authenticity	of this samp	ole. I am aware th	nat tampering with or intentionally mislab	eling the sa	imple lo	cation,	, date o	or time	e of co	llection	n is co	nsider	ed frau	ıd and	may be	grounds fo	or legal action.	
	_Cole Burton		Inc		I _T	To 11 10: 1	In-		-	Time					Same	or roa	iring th	armal es	esenzation e	nust be received on ice the da	av they are
~ &	ed by: (Signatur	4	S Date	/19/24	Time 8:15	Received by: (Signature)	les B	19.2	14	C	813	5			sampl		eceived		n ice at an a	vg temp above 0 but less than	
	ed by Signatur	_		19-24	1940	Received by: (Signature)	Bate	19.2	4	Time	140)			Rec	eived	d on i	ce:	Cy / N	se Only N	
(X	ed by: (Signatur			29.24	Time	Received by: (Signature)		20-20	1	Time 05	a)			<u>T1</u>				<u>T2</u>	<u>T3</u>	
Relinquish	ed by: (Signatu	re)	Date		Time	Received by: (Signature)	Date			Time							np °C				
	-t C -11 Cd - C	olid Sp - Slu	dge A - Aque	ous, O - Oth	er		Cor	ntainer	Type	o. 6 -	plass	n-r	oly/r	plasti	C. ag	- am	per g	ass V	- VOA		

(

envirotech environment envir

Printed: 8/20/2024 9:30:49AM

Envirotech Analytical Laboratory

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:	08/20/24	05:00		Work Order ID:	E408167
Phone:	(505) 382-1211	Date Logged In:	08/19/24	17:08		Logged In By:	Noe Soto
Email:	ashley.giovengo@wescominc.com	Due Date:	08/26/24	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	Ourier		
	e COC complete, i.e., signatures, dates/times, reques	ited analyses?	Yes	Carrier. <u>c</u>	<u>Journer</u>		
	Il samples received within holding time?	iou unurj sos.	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion					Comments	s/Resolution
Sample T	<u> Curn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	,	temperature. 4	<u> </u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?)	Yes				
	appropriate volume/weight or number of sample contains		Yes				
Field Lat		iers conecteur	105				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	iniation.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		No				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphase	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	zed?	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborator	m19	No				
	subcontract laboratory specified by the client and if	•	NA	Subcontract Lab	NI A		
		so who:	INA	Subcontract Lac); NA		
Client Ir	<u>istruction</u>						

Page 23 of 25

Date

age _	of _2	_
		Rece
ГХ		ivea
		by
RCRA		OCD.
RCRA		: 9/1
or N		Received by OCD: 9/17/2024 3:54:22 PM
		3:54:2
		2 PM

		approximate the same of the sa			A STATE OF THE PARTY OF THE PAR			Part of the last of		A STATE OF THE PARTY.	Chara				_		1-1-11	1					
-	Clie	nt Inform	ation			Invoice Information				La	ab U	se Or	ly				TA	T	5		State	2	
Client: D	evon				Co	ompany: Devon		Lab	wo	#		Job	Num	ber		1D	2D	3D S	itd	NM	COUT	TX	1
Project:		uffiin 31-	-30 334H			ddress: 205 E Bender Road #150)		INF		7	1		-00	PX 3	10		X	,,,,	x		1/4	
The same of the sa	lanager: As	Name and Address of the Owner, where			The state of the s	ty, State, Zip: Hobbs NM, 88240			100	15.00	-	10/31/	4		2.71			1			-		
	3122 Natio				Section 1	ione: (575)748-1838		-				Δna	lycic	and	Mat	hod		-		ED	A Progra	ım	1
A CONTRACTOR OF THE PARTY OF TH	e, Zip: Carls					mail: dale.woodall@dvn.com				1	T	Alle	19313	anu	VICE	Tiou	-	-		SDWA	CWA	RCRA	1
STATE OF THE PARTY	575-988-005		00220			THE RESERVE OF THE PARTY OF THE			100										-	SUVVA	CVVA	NCNA	4
					IVII	scellaneous: Dale Woodall													-		Lv	L	4
Email: a	giovengo@e	nsolum.c	om				-		8015	8015									-	ompliand	e Y	or N	4
							Sec.		8 49	8 Ac	21	00	300.0	N	×	tals			1	PWSID#			4
				Samp	ole Informat	ion	-		8	80	y 80	826	le 3C	Z	- 500	Me					ALC: U		1
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Number	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride	BGDOC-	TCEQ 1005	RCRA 8 Metals					Remarks		
10:25	8/16/2024	Soil	1			FS15 - 2'								х									
11:33	8/16/2024	Soil	1			FS33 - 1.5'		2						x									
11:34	8/16/2024	Soil	1			FS34 - 1.5'		3						x					1	911			
12:00	8/16/2024	Soil	1			FS49 - 1.5'		u						x									
12:01	8/16/2024	Soil	1			FS50 - 1.5'		5						x									
12:03	8/16/2024	Soil	1			FS52 - 1.5'		6						х									
10:30	8/16/2024	Soil	1		51.10	-sw04-1' +- 0-1'								x						Vaneo	nange	s per 9/13/1	-01
9:28	8/16/2024		-	-	ع ت	SW05 - 0-4'	+												-	H.GIC	varia	, ital,	1 -
3.20		Soil	1					8			1			Х									
10:30	8/16/2024	Soil	1			BH04-0'		9						x						Name per A	.Giov	unao	
10:35	8/16/2024	Soil	1			BH04-2'	Ť.	10						x							W.2		
Addition	nal Instruction	ons: Ple	ase CC: c	burton@e	ensolum.con	n, agiovengo@ensolum.com, da	le.wo	odall@d	vn.c	om, c	ham	ilton	@en	solun	1.00	m, ies	strell	a@er	nsolu	-			
I, (field sam	pler), attest to th	e validity an	d authentici	y of this samp	le. I am aware th	nat tampering with or intentionally mislabelin	ng the sa	ample locati	on, dat	te or tin	ne of c	ollectio	n is co	onsidere	d frau	ud and	may be	groun	ds for	legal action.			
Sampled by	:_Cole Burton_																						
Relinquish	ned by (Signatu	ire)	Date		Time	Received by: (Signature)	C. Date		Tim	e		1		100000000000000000000000000000000000000						st be received			
1	el &	+.	8	/19/24	8:15	refresher clark	8	19-24	1	1815	5						packed	in ice at	an avg	temp above (but less tha	n 6°C on	
Relinquish	ned by: Asignar	irle)	(Dat		Time	Received by: (Signature)	Date		Tim	e				subsec	went c	lavs		La	b Us	e Only		15 10 10	9
VVI	ned by: Asignate	gonza	468 8	19:24	1940	I.A.M.	8	-19.20	1 /	que	7	1		Reci	eive	d on i	ice:		/ N				
Relinquish	ned by: (Signatu	ire)	Dat		Time	Received by: (Signature)	Date		Tim	e	_	100		11.00									1
LV	H.		8	20.24	10415	Merdenh D HEDDO	8	20.21	10	5	77	2		T1				T2			T3		1
Relinguish	ned by: (Signatu	ire)	Dat		Time	Received by: (Signature)	Date		Tim	ie		W.			170		111			151	100		1
									1					AVG	Ter	np°C	-						3
Sample Ma	trix: S - Soil, Sd -	Solid, Sg - Slu	udge, A - Aqu	eous, O - Othe	er		Cor	ntainer Ty	pe: g	- glas	s, p -	poly/	plast	THE RESERVE TO SERVE		Stone (Staning)		- VO	A		Real States		110
The second second second	CALL STATE OF THE PARTY OF THE	the second section is a second section of				er arrangements are made. Hazardous s	ample	s will be re	turne	d to cli	ient o	r dispo	sed o	of at the	e clie	nt exp	ense.	The re	port f	or the ana	ysis of the	above	
						th this COC. The liability of the laborato													100				



envirotec

Released to Imaging: 10/17/2024 1:34:05 PM

	Chain of C	Custo	dy											State NM CO UT TX X EPA Program SDWA CWA RCRA Compliance Y or N PWSID# Remarks Name Change per A. Giovingo
Client Information	Invoice Information		198		Lab	Use (Only		Wat I		TA	T		State
lient: Devon	Company: Devon		Lab	WO#			b Nun	nber	-	1D	2D	3D	Std	NM CO UT TX
roject: Spud Muffiin 31-30 334H	Address: 205 E Bender Road #150			08			1058		507				X	X
roject Manager: Ashley Giovengo	City, State, Zip: Hobbs NM, 88240											K		
ddress: 3122 National Parks Hwy	Phone: (575)748-1838					A	nalysi	s and	Met	hod	N.			EPA Program
ity, State, Zip: Carlsbad NM, 88220	Email: dale.woodall@dvn.com			400										SDWA CWA RCRA
hone: 575-988-0055	Miscellaneous: Dale Woodall		TAR							9				
mail: agiovengo@ensolum.com				8015	015						- 4			Compliance Y or N
Can	ple Information	PAG		by 8	by 8	1 9	00.00	Z	X	etals				PWSID#
Time No. of		P 7	Lah	ORO	DRO	o An	by 82	- JC	1005	8 M				Remarks
ampled Date Sampled Matrix Containers	Sample ID	Field	Number	DRO/ORO by	GRO/DRO by 8015	700	VOC by 8250 Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Nemarks
10:41 8/16/2024 Soil 1	BH0 A - 4'		11					x						Name Change
3011	3		11					^						Name Change per A. Giovengo
														8/23/24 · RAS
														DISCIPI KHO
											- 0			
						-				-		-	-	
						1								
								-					-	
			10 -1											
							-	+	-					
dditional Instructions: Please CC: cburton@	ensolum.com, agiovengo@ensolum.com, dal	e.wood	dall@dv	n.co	m, cha	milto	on@er	nsolu	m.coi	m, ie	strel	la@	enso	lum.com
	ole. I am aware that tampering with or intentionally mislabeling	g the samp	ple locatio	n, date	or time o	f collec	ction is	conside	red frau	ıd and	may b	e grou	unds fo	or legal action.
impled by: _Cole Burton	Time I Product (Crosson)	Inote		Time		- F		Isam	ples requ	dring +1	armal	procon	ration n	nust be received on ice the day they are
elinquished by: (Signature) Date \$/19/20	Time Received by: (Signature) Received by: (Signature) Received by: (Signature)	V R-1	9.14	Time	2180									vg temp above 0 but less than 6 °C on
elinquished by Signature) Date	Time Received by: (Signature)	Date	1-201	Time of				suhs	equent o	lavs		-	ab U	se Only
elmoushed by Signature) Bate 8 (9-14	1940 1.4.	8.1	9.24	1	940			Re	ceive	d on	ice:		Y / 1	
elin ulshed by: (Signature) Date 28-20		Date		Time								1		13-12-71 COLO
¥. H. 8. €. 10	F Wat and I was	8.20	724	04	500			<u>T1</u>				<u>T2</u>		<u>T3</u>
elinquished by: (Signature) Date	Time Received by: (Signature)	Date		Time										THE REAL PROPERTY.
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - O		Conta	iner Typ	201.0	alacc =		ly/plac		G Ter			V	0.0	
Ample Matrix: > - Soil Sr - Soild Sp - Slidge A - Adileous O - O	ner	Conto	miel ivi	JC. K	Eldoo. L	- 00	IV/Did	still. d	e cill	DCI E	INNA	v - V	UH	



envirotec envirotec

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Spud Muffin 31 30 334H

Work Order: E409014

Job Number: 01058-0007

Received: 9/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/6/24

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: 9/6/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Spud Muffin 31 30 334H

Workorder: E409014

Date Received: 9/5/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/5/2024 6:00:00AM, under the Project Name: Spud Muffin 31 30 334H.

The analytical test results summarized in this report with the Project Name: Spud Muffin 31 30 334H 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 reguarding 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

ljarboe@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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH04 - 6'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	Donoutoda
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/06/24 14:46

Client Sample ID	Lab Sample ID M	Matrix	Sampled	Received	Container
BH04 - 6'	E409014-01A	Soil	09/04/24	09/05/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Spud Muffin 31 30 334H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	9/6/2024 2:46:05PM

BH04 - 6' E409014-01

		E409014-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2436038
Benzene	ND	0.0250	1	09/05/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/05/24	09/05/24	
Toluene	ND	0.0250	1	09/05/24	09/05/24	
o-Xylene	ND	0.0250	1	09/05/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/05/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/05/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	09/05/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2436038
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	09/05/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2436036
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/05/24	
Surrogate: n-Nonane		85.2 %	50-200	09/05/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2436037
Chloride	163	20.0	1	09/05/24	09/05/24	



Spud Muffin 31 30 334H Devon Energy - Carlsbad Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 9/6/2024 2:46:05PM **Volatile Organics by EPA 8021B** Analyst: CG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2436038-BLK1) Prepared: 09/05/24 Analyzed: 09/05/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.88 8.00 98.5 70-130 LCS (2436038-BS1) Prepared: 09/05/24 Analyzed: 09/06/24 5.19 104 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.04 0.0250 5.00 101 70-130 5.13 0.0250 5.00 103 70-130 Toluene o-Xylene 5.01 0.0250 5.00 100 70-130 10.3 10.0 103 70-130 0.0500 p.m-Xvlene 102 70-130 15.3 15.0 Total Xylenes 0.0250 8.00 98.2 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.86 Matrix Spike (2436038-MS1) Source: E409009-02 Prepared: 09/05/24 Analyzed: 09/06/24 4.99 0.0250 5.00 ND 54-133 Benzene ND 97.1 61-133 Ethylbenzene 4.86 0.0250 5.00 Toluene 4.94 0.0250 5.00 ND 98.8 61-130 ND 97.2 63-131 4.86 5.00 0.0250 o-Xylene p,m-Xylene 9.93 0.0500 10.0 ND 99.3 63-131 14.8 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.18 8.00 Matrix Spike Dup (2436038-MSD1) Source: E409009-02 Prepared: 09/05/24 Analyzed: 09/06/24 5.22 0.0250 5.00 ND 54-133 4.41 ND 61-133 4.41 5.07 0.0250 5.00 101 20 Ethylbenzene 61-130 Toluene 5.15 0.0250 5.00 ND 103 4 22 20 5.07 5.00 ND 101 63-131 4.23 20 o-Xylene 0.0250 10.4 10.0 ND 104 63-131 4.19 20 p,m-Xylene 0.0500 Total Xylenes 15.4 0.0250 15.0 ND 103 63-131 4.20 20

8.00

102

70-130



Surrogate: 4-Bromochlorobenzene-PID

8.19

Matrix Spike Dup (2436038-MSD2)

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

47.9

7.68

20.0

QC Summary Data

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo9/6/20242:46:05PM

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go			9/6	5/2024 2:46:05PM
	Non	Analyst: CG							
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2436038-BLK1)							Prepared: 0	9/05/24 Analy	yzed: 09/05/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			
LCS (2436038-BS2)							Prepared: 0	9/05/24 Analy	yzed: 09/06/24
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.2	70-130			
Matrix Spike (2436038-MS2)				Source:	E409009-	02	Prepared: 0	9/05/24 Analy	yzed: 09/06/24
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

50.0

8.00

Source: E409009-02

95.7

96.0

ND

Prepared: 09/05/24 Analyzed: 09/06/24

20

1.21

70-130

70-130

Devon Energy - CarlsbadProject Name:Spud Muffin 31 30 334HReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo9/6/20242:46:05PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			9	/6/2024 2:46:05PM
	Nonha	logenated Or		Analyst: NV					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2436036-BLK1)							Prepared: 0	9/05/24 Ana	lyzed: 09/05/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.2		50.0		82.4	50-200			
LCS (2436036-BS1)							Prepared: 0	9/05/24 Ana	lyzed: 09/05/24
Diesel Range Organics (C10-C28)	198	25.0	250		79.3	38-132			
Surrogate: n-Nonane	40.7		50.0		81.3	50-200			
Matrix Spike (2436036-MS1)				Source:	E409009-	01	Prepared: 0	9/05/24 Ana	lyzed: 09/05/24
Diesel Range Organics (C10-C28)	781	25.0	250	709	29.0	38-132			M4
Surrogate: n-Nonane	42.4		50.0		84.9	50-200			M4
Matrix Spike Dup (2436036-MSD1)				Source:	E409009-	01	Prepared: 0	9/05/24 Ana	lyzed: 09/05/24
Diesel Range Organics (C10-C28)	824	25.0	250	709	46.3	38-132	5.38	20	
Surrogate: n-Nonane	40.3		50.0		80.7	50-200			

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	pud Muffin 31 1058-0007 Ashley Giovens					Reported: 9/6/2024 2:46:05PM
		<u> </u>		300.0/9056					Analyst: WF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2436037-BLK1)							Prepared: 0	9/05/24 A	analyzed: 09/05/24
Chloride	ND	20.0							
LCS (2436037-BS1)							Prepared: 0	9/05/24 A	analyzed: 09/05/24
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2436037-MS1)				Source:	E409013-	04	Prepared: 0	9/05/24 A	analyzed: 09/05/24
Chloride	386	20.0	250	129	103	80-120			
Matrix Spike Dup (2436037-MSD1)				Source:	E409013-	04	Prepared: 0	9/05/24 A	analyzed: 09/05/24
Chloride	382	20.0	250	129	101	80-120	0.980	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:	Spud Muffin 31 30 334H	
١	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
l	Artesia NM, 88210	Project Manager:	Ashley Giovengo	09/06/24 14:46

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



	Page	1	_ of	- Rec
ate	9			eive
T	TX			d by
				00
ra	m			Ö
	RCI	RA		9/1
1	or	N		7/2024
ks				Received by OCD: 9/17/2024 3:54:22 PM
				PM

	Clie	nt Inform	nation			Invoice Information Lab Use Only							TA	AT			State	e					
Client: Devon					Company: Devon			Lab WO# Job Nu				Num					Std	NM	CO UT	TX			
Project:	oject: Spud Muffin 31-30 #334H Address: 205 E Bender Road #150						EL	109	014		010	58	-00	100	X				X				
Project Manager: Ashley Giovengo				C	ty, State, Zip: Hobbs NM, 882	240																	
Address	: 3122 Nation	nal Parks	Hwy			ione: (575)748-1838							Ana	lysis	and	Met	hod				EF	A Progra	am
City, Sta	te, Zip: Carls	bad NM,	88220		E	mail: dale.woodall@dvn.co	m														SDWA	CWA	RCRA
Phone:	575-988-005	5				scellaneous: Dale Woodall																	
Email: a	giovengo@e	nsolum.c	om							ın	2										Complian	ce Y	or N
										801	801	13		0			52				PWSID#		
				Sam	ple Informat	ion				O by	O by	8021	8260	300	N	(T - 5)	Meta						
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	-Ilter	Lab umber	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					Remarks	
10:32	9/4/2024	Call	1			BH04 - 6'			1	-	0	ш		0	23.01	-	· L						
		Soil	1			4.000									X								
									-/														
								_															
							1								8								
															4								
																				0			
				M.																			
						, agiovengo@ensolum.com,	dale.wo	oda	II@dv	n.cor	m, ie	strel	la@e	nsol	um.c	om,	bdea	ıl@e	nsolu	m.co	om,		
	on@ensolum						-0		1	1.4				V. 20		14		anau Fr		1.1.	I and I and		
	pler), attest to the r: Chad Hamilton a			ity of this samp	ie. I am aware th	at tampering with or intentionally mislab	eling the s	ample	e location	i, date	or time	e or co	ilection	is co	nsidere	ed frau	id and	may b	e groun	as tor	iegai action.		
			Da	ta	Time	Dacained by (Signature)	a Dat	0		Time		_			Sample	es requ	iring th	ermal n	reservati	ion mu	st be received	on ice the da	v they are
Pa	ned by: (Signatu			15/24	10:15	Received by: (Signature)	es a	.4	24	100	210										temp above 0		
Politouick	and breaksian of	rol A			Time	A	Dat		01	Time					subsec	went d	avs		La	h He	e Only		
Mic	helle G	Gonzales 9-4-24 1830 Jakes 4880					-24	19	230	0			Rece	eived	d on i	ce:)/ N					
Relinquist	ned by (Signatur	ngn	Da		Time	Received by: (Signature)	Dat			Time													
1 food	rew Mi	OBOL	q	4.24	1400	Muylyh R Hell	9	.5	24	01	50	0			<u>T1</u>				T2			<u>T3</u>	
Relinquish	ned by: (Signatu	re)	Da	te	Time	Received by: (Signature)	Dat	е		Time								1	1				
															AVG	Ten	np °C	_ 4					
	trix: S - Soil, Sd - S		0-051						ner Typ						c, ag	- ami	ber gl	ass, v	- VO				
Harrison Committee of the Committee of t		and the second of				r arrangements are made. Hazardou										e clier	nt exp	ense.	The re	port f	for the ana	ysis of the	above
samples is	applicable only	to those s	amples re	eceived by the	laboratory with	h this COC. The liability of the labora	atory is lin	nited	to the a	amour	nt paid	d for c	n the	repor	rt.								

(3

enviroteciss
enviroteciss
enviroteciss

Printed: 9/5/2024 7:56:22AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	09/05/24	06:00	Work Order ID:	E409014
Phone:	(505) 382-1211	Date Logged In:	09/04/24	17:14	Logged In By:	Noe Soto
Email:	ashley.giovengo@wescominc.com	Due Date:	09/05/24	17:00 (0 day TAT)		
GL :	10 1 1 (000)					
	f Custody (COC)		37			
	the sample ID match the COC? the number of samples per sampling site location ma	tch the COC	Yes			
	samples dropped off by client or carrier?	ion the coc	Yes	a : a :		
	ne COC complete, i.e., signatures, dates/times, reques	eted analyses?	Yes Yes	Carrier: Courier		
	all samples received within holding time?	sicu anaryses:	Yes			
J. Wele	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssit.		105		Comment	s/Resolution
	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>			
Sample	Container					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	· · ·					
	e field sample labels filled out with the minimum info	ormation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>					
	s the COC or field labels indicate the samples were pr	reserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved n	netals?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborato	ry?	No			
	a subcontract laboratory specified by the client and it	•	NA	Subcontract Lab: NA		
Client l	Instruction					
<u>enene i</u>	<u> </u>					

Page 12 of 12

Date

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



APPENDIX E

Email Correspondence

From: Hamlet, Robert, EMNRD

To: Ashley Giovengo; Woodall, Dale

Cc: Cole Burton; Chad Hamilton; Israel Estrella; Brandon Deal; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD;

Velez, Nelson, EMNRD

Subject: Extension Request - Spud Muffin 31-30 334H - Incident Number nAPP2406734751

Date: Thursday, May 30, 2024 10:02:34 AM

Attachments: <u>image006.png</u>

image007.png image008.png

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2406734751

Ashley,

Your request for a 90 day extension to **August 28th, 2024** is approved. Please include this email 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: Ashley Giovengo <agiovengo@ensolum.com>

Sent: Thursday, May 30, 2024 9:21 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Woodall, Dale <Dale.Woodall@dvn.com>

Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Israel

Estrella <iestrella@ensolum.com>; Brandon Deal <bdeal@ensolum.com>

Subject: [EXTERNAL] Extension Request - Spud Muffin 31-30 334H - Incident Number

nAPP2406734751

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

All,

Devon Energy Production Company, LP (Devon) is requesting an extension for the current

deadline of June 04, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Spud Muffin 31 30 #334H, Site (Incident Number nAPP2406734751). The release occurred on March 06, 2024, and approximately 7 barrels (bbls) of crude oil was released onto the caliche pad; 5 bbls of crude oil was recovered. Lateral and vertical delineation sampling to the strictest closure criteria per NMOCD Table I has been completed at the Site and Devon is currently in the process of selecting a sub-contractor to complete the excavation. Devon respectfully requests a 90-day extension until September 02, 2024, to complete remediation and confirmation sampling at the Site. Devon will submit a remediation work plan or closure report following remediation efforts and confirmation sampling. This release remained entirely on-pad and did not impact any sensitive Site receptors. Please let me know if you have any additional questions regarding this site.

Thanks,



"Your authenticity is your superpower." – Unknown

From: Hamlet, Robert, EMNRD

To: Ashley Giovengo

Cc: <u>Brandon Deal; Cole Burton; Chad Hamilton</u>

Subject: 48 Hour Confirmation Sampling Notification - Spud Muffin 31-30 334H - nAPP2406734751

Date: Friday, August 9, 2024 11:03:03 AM

Attachments: <u>image006.png</u> <u>image007.png</u>

image008.png

[**EXTERNAL EMAIL**]

Ashley,

Please, finish collecting confirmation samples. The variance to extend the collection of confirmation samples past the estimated completion date (one additional day) is approved.

Regards,

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, August 9, 2024 10:51 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov> **Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] 48 Hour Confirmation Sampling Notification - Spud Muffin 31-30 334H -

nAPP2406734751

Here ya go Rob!

From: Ashley Giovengo agiovengo@ensolum.com>

Sent: Friday, August 9, 2024 10:19 AM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>; Woodall, Dale < Dale.Woodall@dvn.com> **Cc:** Brandon Deal < Deal@ensolum.com>; Cole Burton < Courton@ensolum.com>; Chad Hamilton < Chamilton@ensolum.com>

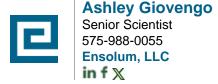
Subject: [EXTERNAL] 48 Hour Confirmation Sampling Notification - Spud Muffin 31-30 334H - nAPP2406734751

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

Good Morning,

Can we extend the 48-hour confirmation sampling notification at the Spud Muffin 31-30 334H (Site) to include confirmation samples collected today (08/09/2024)? There is an existing confirmation sampling notification that was submitted to the NMOCD website that is valid through 08/08/2024. Devon respectfully requests this additional day in order to complete additional hand digging around the wellheads at the Site.

Best Regards,



"Your authenticity is your superpower." - Unknown

From: Hamlet, Robert, EMNRD

To: Ashley Giovengo; Woodall, Dale

Cc: Cole Burton; Chad Hamilton; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD

Subject: (Final Extension) - Spud Muffin 31-30 334H - Incident Number nAPP2406734751

Date: Tuesday, August 27, 2024 9:53:03 AM

Attachments: <u>image006.png</u>

image007.png image008.png

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2406734751

Ashley,

Your request for a 90 day extension to **November 25th, 2024** is approved. This will be the **final extension** for this release. 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: Ashley Giovengo <agiovengo@ensolum.com>

Sent: Tuesday, August 27, 2024 8:53 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Woodall, Dale <Dale.Woodall@dvn.com>

Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD

<Shelly.Wells@emnrd.nm.gov>

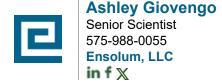
Subject: RE: [EXTERNAL] Extension Request - Spud Muffin 31-30 334H - Incident Number nAPP2406734751

Good Morning Robert,

Please see the attached Site Characterization pdf. I have also included the Well Log and Record for the closest NMOSE water well to the Site. Please let me know if you need any

additional information.

Thanks,



"Your authenticity is your superpower." – Unknown

From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov >

Sent: Monday, August 26, 2024 11:40 AM

To: Ashley Giovengo <a giovengo@ensolum.com>; Woodall, Dale <<u>Dale.Woodall@dvn.com</u>> **Cc:** Cole Burton <<u>cburton@ensolum.com</u>>; Chad Hamilton <<u>chamilton@ensolum.com</u>>; Bratcher,

Michael, EMNRD < mike.bratcher@emnrd.nm.gov >; Wells, Shelly, EMNRD

<Shelly.Wells@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Extension Request - Spud Muffin 31-30 334H - Incident Number

nAPP2406734751

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2406734751

Ashley,

An extension for this incident has already been granted. The OCD will need to see the full Site Assessment/Characterization before another extension can be granted. The OCD needs to know if there are any receptors or possibility of groundwater contamination. Please include depth to groundwater determination, either through a known water source within half mile or drilling of a borehole. Please include attachment, so we can review.

Regards,

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: Ashley Giovengo <a giovengo@ensolum.com>

Sent: Monday, August 26, 2024 11:09 AM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>; Woodall, Dale < Dale.Woodall@dvn.com>

Cc: Cole Burton < ccburton@ensolum.com>; Chad Hamilton < ccburton@ensolum.com>; Chad Hamilton < cchamilton@ensolum.com>> Subject: [EXTERNAL] Extension Request - Spud Muffin 31-30 334H - Incident Number

nAPP2406734751

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

All,

Devon Energy Production Company, LP (Devon) is requesting an extension of the current deadline of August 28, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Spud Muffin 31-30 334H (Site) (Incident Number nAPP2406734751). The release occurred on March 06, 2024, and approximately 7 barrels (bbls) of crude oil was released onto the caliche pad; 5 bbls of crude oil was recovered. Lateral and vertical delineation sampling to the strictest closure criteria per NMOCD Table I has been completed at the Site. Ensolum personnel oversaw the excavation of the on-pad release area beginning on July 31, 2024, through August 16, 2024. Following excavation activities, Ensolum personnel collected a total of 71 confirmation samples from the floor of the excavation; A total of 8 confirmation samples exceeded the Site Closure Criteria. All 8 confirmation floor samples lie within and around pipelines, wellheads and other associated production equipment. Ensolum personnel will need to return to the Site in order to complete vertical delineation sampling inside the Area of Requested Deferral (the 8 failing confirmation sample areas) in accordance with the strictest Closure Criteria per NMOCD Table I. Devon intends to submit a remediation work plan or closure report, upon receiving final laboratory analytical results from the additional delineation sampling activities. Devon respectfully requests an extension until November 26, 2024.

Thanks.



 $\mid \textbf{in f X} \\$ "Your authenticity is your superpower." – Unknown

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

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 367971

QUESTIONS

Operator:	OGRID:			
DEVON ENERGY PRODUCTION COMPANY, LP	6137			
333 West Sheridan Ave.	Action Number:			
Oklahoma City, OK 73102	367971			
	Action Type:			
	[NOTIFY] Notification Of Sampling (C-141N)			

QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2406734751					
Incident Name	NAPP2406734751 SPUD MUFFIN 31 30 #334H @ 30-015-45303					
Incident Type	Oil Release					
Incident Status	Initial C-141 Approved					
Incident Well	[30-015-45303] SPUD MUFFIN 31 30 #334H					

Location of Release Source					
Site Name	SPUD MUFFIN 31 30 #334H				
Date Release Discovered	03/06/2024				
Surface Owner	Private				

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	13,917
What is the estimated number of samples that will be gathered	75
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/31/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Ensolum 575-706-3585. Will sample 8/1-2/2024 too
Please provide any information necessary for navigation to sampling site	32.2555182 -104.0161698

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 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 367971

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	367971
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created	Condition	Condition
Ву		Date
wdale	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.	7/29/2024

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

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 370723

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	370723
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites		
Incident ID (n#) nAPP2406734751		
Incident Name	NAPP2406734751 SPUD MUFFIN 31 30 #334H @ 30-015-45303	
Incident Type	Oil Release	
Incident Status	Initial C-141 Approved	
Incident Well	[30-015-45303] SPUD MUFFIN 31 30 #334H	

Location of Release Source	
Site Name SPUD MUFFIN 31 30 #334H	
Date Release Discovered 03/06/2024	
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	13,917	
What is the estimated number of samples that will be gathered	75	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/08/2024	
Time sampling will commence	08:10 AM	
Please provide any information necessary for observers to contact samplers	Ensolum. Sampling through 08/09/2024	
Please provide any information necessary for navigation to sampling site	32.2555182 -104.0161698	

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

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 370723

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	370723
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created		Condition
Ву		Date
wdale	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.	8/6/2024

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

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 373487

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	373487
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406734751
Incident Name	NAPP2406734751 SPUD MUFFIN 31 30 #334H @ 30-015-45303
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-45303] SPUD MUFFIN 31 30 #334H

Location of Release Source	
Site Name SPUD MUFFIN 31 30 #334H	
Date Release Discovered 03/06/2024	
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet 13,917		
What is the estimated number of samples that will be gathered	75	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/16/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	08/16 to 08/19 will be the sampling dates Ashley Giovengo Senior Scientist 575-988-0055 Ensolum, LLC	
Please provide any information necessary for navigation to sampling site	32.2555182,-104.0161698	

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

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 373487

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	373487
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created	Condition	Condition
Ву		Date
wdale	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.	8/13/2024

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

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 384361

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	384361
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2406734751	
Incident Name	NAPP2406734751 SPUD MUFFIN 31 30 #334H @ 30-015-45303	
Incident Type	Oil Release	
Incident Status	Deferral Request Received	
Incident Well	[30-015-45303] SPUD MUFFIN 31 30 #334H	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	SPUD MUFFIN 31 30 #334H	
Date Release Discovered	03/06/2024	
Surface Owner	Private	

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 fo	r the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Well Crude Oil Released: 7 BBL Recovered: 5 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	pinhole leak found at choke on 3" line. Well was shut in to stop leak. Estimated 6.5 bbls oil released onto pad. 4.5 bbls recovered

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

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

QUESTIONS, Page 2

Action 384361

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 e, NIVI 07303
QUESTI	ONS (continued)
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 384361 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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	and the beautiful by the second in the second second in the second secon
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	4.5 bbls recovered
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional

Email: Dale.Woodall@dvn.com

Date: 09/17/2024

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

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

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

QUESTIONS, Page 3

Action 384361

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	384361
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between ½ and 1 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information r.	must be provided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of	of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully d	delineated Yes
Was this release entirely contained within a lined containment ar	rea No
Soil Contamination Sampling: (Provide the highest observable value	ue for each, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 CI B)	8970
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	31815.5
GRO+DRO (EPA SW-846 Method 8015M)	24275.5
BTEX (EPA SW-846 Method 8021B or	8260B) 6.2
Benzene (EPA SW-846 Method 8021B or	r 8260B) 0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report which includes the anticipated timelines for beginning and completing the ren	t includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, mediation.
On what estimated date will the remediation commence	07/31/2024
On what date will (or did) the final sampling or liner inspection oc	ocur 08/16/2024
On what date will (or was) the remediation complete(d)	06/18/2024
What is the estimated surface area (in square feet) that will be re	eclaimed 13909
What is the estimated volume (in cubic yards) that will be reclaim	ned 742
What is the estimated surface area (in square feet) that will be re	emediated 13909
What is the estimated volume (in cubic yards) that will be remedia	iated 742
These estimated dates and measurements are recognized to be the best guess	s or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be mir	nimally 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.

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

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

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

QUESTIONS, Page 4

Action 384361

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	384361
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)		
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.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(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	R360 ARTESIA LLC LANDFARM [fEEM0112340644]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com

Date: 09/17/2024

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.

Released to Imaging: 10/17/2024 1:34:05 PM

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

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

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

QUESTIONS, Page 5

Action 384361

QUEST	/	۱۱ ۱
	ICONTI	niieni

Operator.	OGRID.	
DEVON ENERGY PRODUCTION COMPANY, LP	6137	
333 West Sheridan Ave.	Action Number:	
Oklahoma City, OK 73102	384361	
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)	
QUESTIONS	•	
Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each o	f the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes	
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Wellheads, chemical containments, electrical lines and production lines	
What is the remaining surface area (in square feet) that will still need to be		
remediated if a deferral is granted	1460	
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	325	
	iately under or around production equipment such as production tanks, wellheads and pipelines where In may be deferred with division written approval until the equipment is removed during other operations, or when	
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	30-015-45303 SPUD MUFFIN 31 30 #334H	
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed et which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC	
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com	

Date: 09/17/2024

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

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

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

QUESTIONS, Page 6

Action 384361

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	384361
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	373487	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/16/2024	
What was the (estimated) number of samples that were to be gathered	75	
What was the sampling surface area in square feet	13917	

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	

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

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 384361

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	384361
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created	By Condition	Condition Date
rhaml	Devon's deferral requests final remediation for (Incident Number NAPP2406734751) 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 area in blue on figure 4 that is limited to the area beneath active production equipment and surface piping, 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 marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	10/17/2024