



December 13, 2024

New Mexico Energy Minerals and Natural Resources Department
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request
Grumpy Cat 15 CTB 2
Incident Number nAPP2416957653
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company, LP (Devon), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the Grumpy Cat 15 CTB 2 (Site). The Site is located in Unit C, Section 15, Township 23 South, Range 32 East, in Lea County, New Mexico (32.309235°, -103.664658°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following the release of produced water. Based on field observations, field screening activities, and soil sampling laboratory analytical results, WPX is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2416957653.

BACKGROUND

On June 17, 2024, a pinhole leak developed on a 6-inch steel main water line, which resulted in the release of approximately 23 barrels (bbls) of produced water onto the caliche pad; 3 bbls of produced water were recovered. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on June 17, 2024, and submitted an initial C-141 application (Form C-141) on June 18, 2024. The release was subsequently assigned Incident Number nAPP2416957653.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the initial C-141 application subsection, Site Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring, C 04889 POD1, located approximately 290 feet southeast of the Site. The well had a reported depth to groundwater greater than 105 feet below ground surface (bgs) and a total depth of 105 feet bgs. There are no regional or Site-specific hydrogeological conditions, such

as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater conditions. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 1.41 miles southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On July 1, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations and to collect lateral delineation soil sampling activities. Five delineation soil samples (SS01 through SS05) were collected from around the release extent at ground surface to assess the lateral extent of the release. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On July 16, 2024, Ensolum personnel were onsite to conduct lateral and vertical delineation sampling activities of the release area. Three boreholes were advanced via hand auger within the release extent to assess the vertical extent of the release area. Borehole BH01 was advanced to a depth of 4 feet bgs and boreholes BH02 and BH03 were advanced to a depth of 3 feet bgs. Ensolum personnel hit refusal due to a layer of indurated caliche.

On October 14, 2024, Ensolum personnel returned to complete vertical delineation sampling with a backhoe. Borehole BH01 was advanced to a depth of 9 feet bgs, borehole BH02 was advanced to a depth of 4 feet bgs, and borehole BH03 was advanced to a depth of 5 feet bgs. Discrete delineation soil samples were collected from each borehole at depths ranging from ground surface to 9 feet bgs. Soil samples were field screened for chloride and TPH utilizing Hach® Chloride QuanTab® Test Strips and a PetroFLAG® Soil Analyzer System, respectively. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for

analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Between June 5 and June 6, 2024, impacted soil was excavated from the on-pad spill area as indicated by visible staining, field screening activities, and laboratory analytical results from delineation soil samples. Excavation activities were performed using a tracked excavator, a loader, and transport vehicles. The excavation occurred on the well pad and south of the well heads. To direct excavation activities, Ensolum personnel screened soil for TPH and chloride utilizing the same methods as previously described.

Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing at most 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS27) were collected from the floor of the excavation at ground surface. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 5,345 square feet. A total of approximately 120 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Northern Delaware Basin disposal facility in Jal, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS04, collected at ground surface, indicated all COC concentrations were compliant with Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results for the vertical delineation soil samples collected from pothole BH01 indicated all COC concentrations were in compliance with the Site Closure Criteria and with the strictest criteria at a depth of 8 feet bgs. Laboratory analytical results for the vertical delineation soil samples collected from potholes PH02 and PH03 indicated all COC concentrations were in compliance with the Site Closure Criteria and with the strictest criteria at depths of 4 feet and 5 feet bgs, respectively.

Laboratory analytical results for excavation floor soil samples (FS01 through FS27) indicated all COC concentrations were in compliance with the Site Closure Criteria at 0.5 feet bgs. Laboratory analytical results are summarized in Tables 1 through 3 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

The release extent has been laterally defined to the strictest Closure Criteria per NMOCD Table I by delineation soil samples SS01 through SS05, collected at ground surface, and vertically by boreholes BH01 through BH03, collected at depths ranging from 4 feet bgs to 9 feet bgs. Excavation of the impacted soil on-pad was completed, and excavation floor samples FS01 through FS27, collected at a depth 0.5 feet bgs, were all in compliance with the Site Closure Criteria.

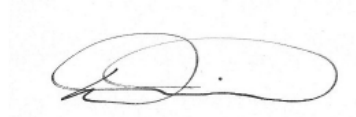
Based on the remedial actions completed to date and a depth to groundwater greater than 105 feet bgs, Devon believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2416957653.

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



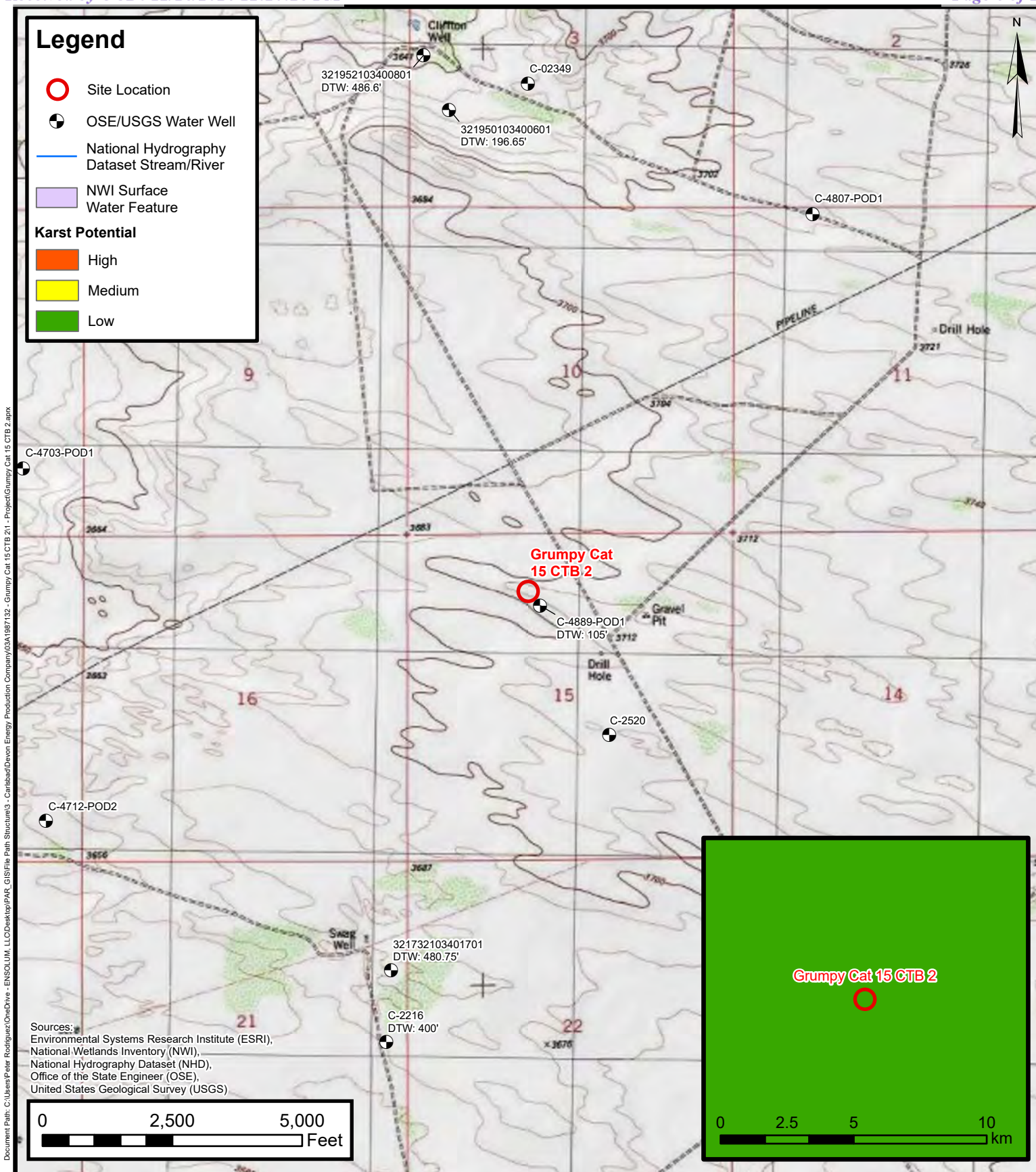
Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
Table 3	Soil Sample Analytical Results (Sidewall Soil Samples)
Appendix A	Well Log and Record
Appendix B	Photographic Log
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications



FIGURES



Site Receptor Map

Devon Energy Production Company, LP

Grumpy Cat 15 CTB 2

Incident Number: nAPP2416957653

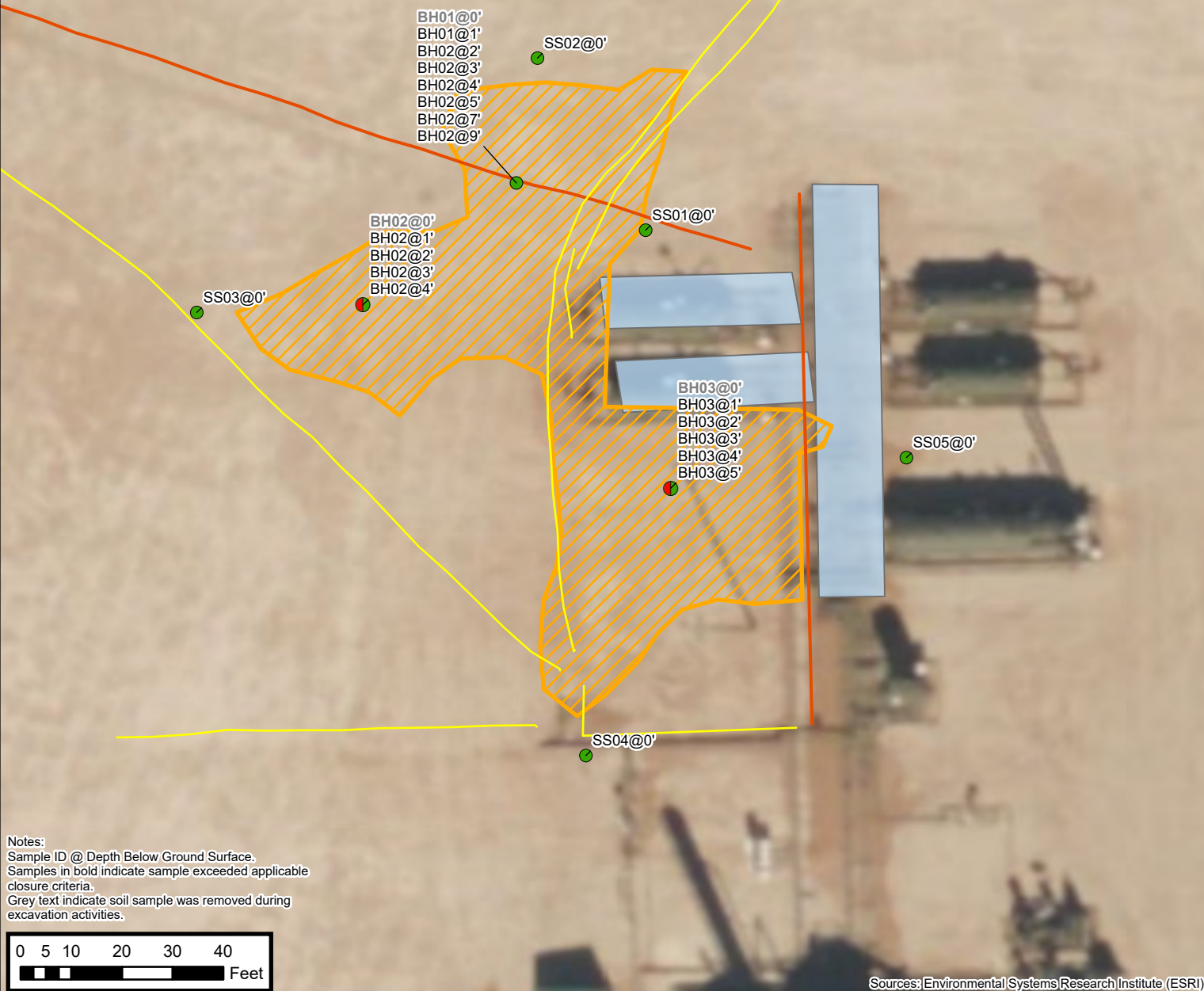
Unit C, Sec. 15, T23S, R32E
 Lea County, New Mexico

FIGURE

1

Legend

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

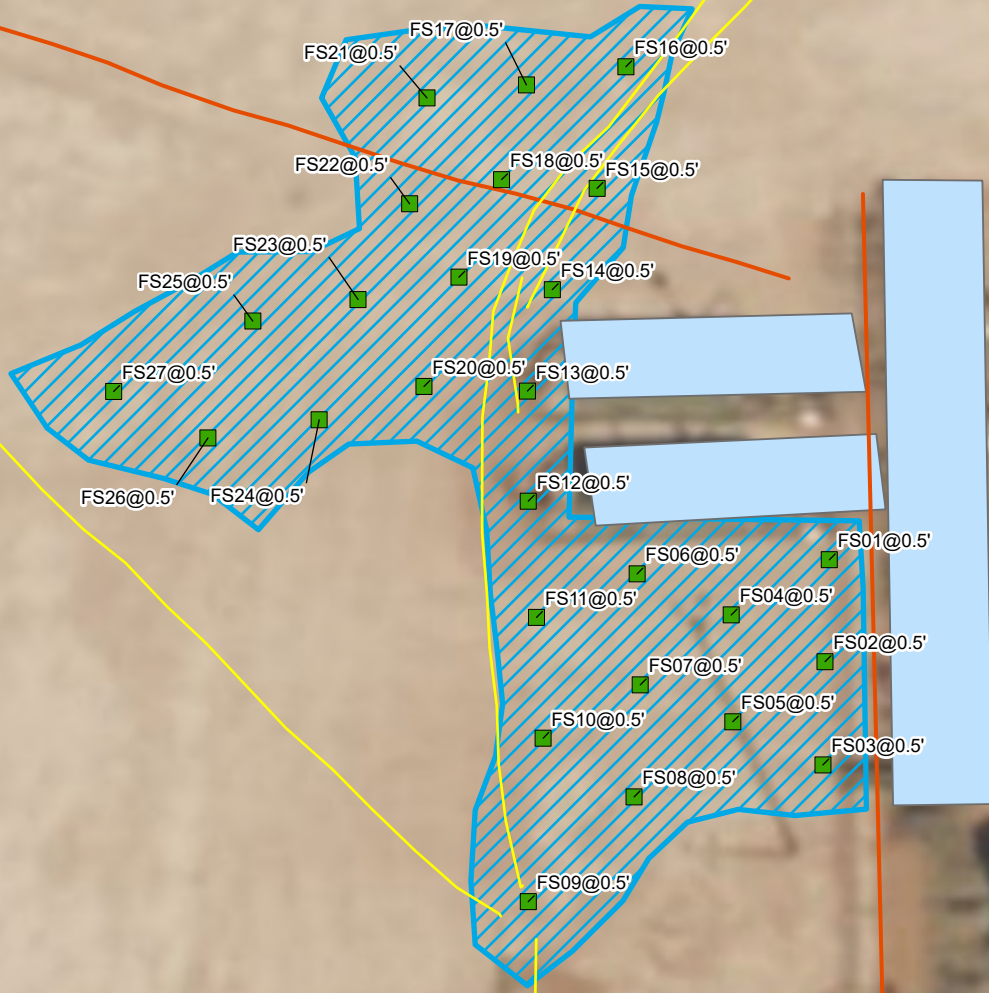
**Delineation Soil Sample Locations**

Devon Energy Production Company, LP
 Grumpy Cat 15 CTB 2
 Incident Number: nAPP2416957653
 Unit C, Section 15, T 23S, R 32E
 Lea County, New Mexico

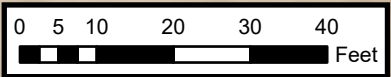
FIGURE**2**

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Production Equipment
- Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

Confirmation Soil Sample Location

Devon Energy Production Company, LP
Grumpy Cat 15 CTB 2
Incident Number: nAPP2416957653
Unit C, Section 15, T23S, R32E
Lea County, New Mexico

FIGURE
3





TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Grumpy Cat 15 CTB 2
 Devon Energy Production Company, LP
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	7/1/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	7/1/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.7
SS03	7/1/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	7/1/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	246
SS05	7/1/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	184
BH01	7/16/2024	0	<0.0250	0.0551	<20.0	<25.0	<50.0	<25.0	<50.0	3,710
BH01	7/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,730
BH01	7/16/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,050
BH01	7/16/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,110
BH01	7/16/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	7,710
BH01	10/14/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,470
BH01	10/14/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	398
BH01	10/14/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02	7/16/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	41,400
BH02	7/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,260
BH02	7/16/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,590
BH02	7/16/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,380
BH02	10/14/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42
BH03	7/16/2024	0	<0.0250	<0.0250	<20.0	41.1	<50.0	41.1	41.1	37,600
BH03	7/16/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,610
BH03	7/16/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,130
BH03	7/16/2024	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	3,580
BH03	10/14/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,480
BH03	10/14/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	60

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 1
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 Devon Energy Production Company, LP
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS01	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	5,640
FS02	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	3,460
FS03	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	5,700
FS04	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	3,110
FS05	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	3,260
FS06	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	2,850
FS07	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	17,200
FS08	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	10,100
FS09	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,320
FS10	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,870
FS11	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	2,370
FS12	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	951
FS13	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	221
FS14	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	565
FS15	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	580
FS16	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	2,150
FS17	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	2,250
FS18	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,170
FS19	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	865
FS20	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,210

Notes:

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Grey text represents samples that have been excavated

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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.

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS21	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,800
FS22	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,890
FS23	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,420
FS24	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,340
FS25	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,540
FS26	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,750
FS27	11/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	2,240

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APPENDIX A

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

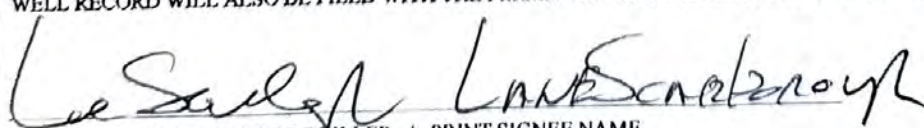
1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1		WELL TAG ID NO. N/A		OSE FILE NO(S). C-04889 POD1			
	WELL OWNER NAME(S) Devon Energy Production Company, LP				PHONE (OPTIONAL) 575-689-7597			
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Dr				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 18	SECONDS 30.96	N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LATITUDE		LONGITUDE		39 50.45 W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit C, Section 15, Township 23S, Range 32E, Lea County, NM								

2. DRILLING & CASING INFORMATION	LICENSE NO. WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc		
	DRILLING STARTED 10/21/2024		DRILLING ENDED 10/21/2024		DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	5.00	Soil Boring				

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	10	10	Sand with Silt, Red to Medium Brown, Coarse to Very Fine	Y ✓ N	
	10	20	10	Sand with Gravel, Light Brown to Tan, Medium to Coarse with Gravel	Y ✓ N	
	20	30	10	Gravel with Sand, White to Tan, Small to Large with Medium to Coarse	Y ✓ N	
	30	40	10	Sand with Gravel, Medium to Light Brown, Coarse to Fine with Gravel	Y ✓ N	
	40	50	10	Sand with Gravel, Light Brown to Tan, Coarse to Fine with Gravel	Y ✓ N	
	50	60	10	Silty Sand, Light Brown to Red, Coarse to Very Fine	Y ✓ N	
	60	70	10	Inter-bedded Sandstone and Sand, Medium Brown, Medium to Coarse	Y ✓ N	
	70	80	10	Clayey Sand, Dark to Medium Brown, Medium to Fine Grained	Y ✓ N	
	80	90	10	Clayey Sand, Dark to Medium Brown, Medium to Fine Grained	Y ✓ N	
	90	100	10	Clayey Sand, Dark Red to Medium Brown, Medium to Fine Grained	Y ✓ N	
	100	105	5	Silty Sand, Light Brown to Tan, Coarse to Fine Grained	Y ✓ N	
	105	105	0	Silty Sand, Tan to Green, Coarse to Fine Grained	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
		MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Scott Scarborough	

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE
	 Scott Scarborough	12/13/2024

FOR OSE INTERNAL USE

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

FILE NO.

POD NO.

TRN NO.



APPENDIX B

Photographic Log



Photographic Log

Devon Energy Production Company, LP
Grumpy Cat 15 CTB 2
nAPP2416957653



Photograph 1
Description: Site signage
View: Southwest

Date: 7/1/24



Photograph 2
Description: Spill area
View: East

Date: 7/1/24



Photograph 3
Description: Delineation
View: West

Date: 7/1/24



Photograph 4
Description: Delineation
View: West

Date: 7/16/24



Photographic Log

Devon Energy Production Company, LP
Grumpy Cat 15 CTB 2
nAPP2416957653



Photograph 5
Description: Delineation
View: East

Date: 10/11/24



Photograph 6
Description: Surface scrape
View: East

Date: 11/21/24



Photograph 7
Description: Surface scrape
View: Norhtwest

Date: 11/21/24



Photograph 8
Description: Surface scrape
View: South

Date: 11/22/24



Photographic Log

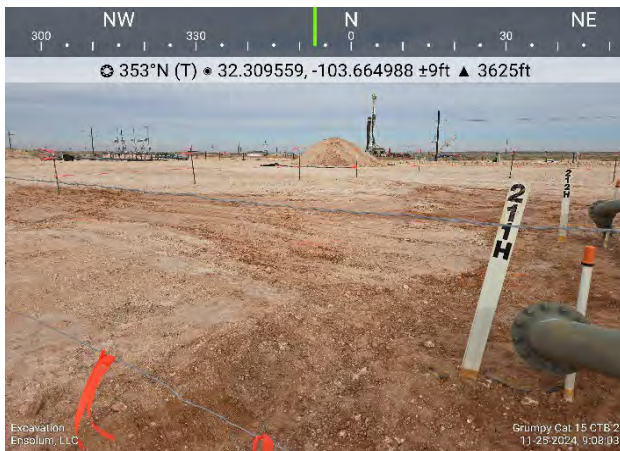
Devon Energy Production Company, LP
Grumpy Cat 15 CTB 2
nAPP2416957653



Photograph 9
Description: Surface scrape
View: North
Date: 11/22/24



Photograph 10
Description: Surface scrape
View: Southwest
Date: 11/22/24



Photograph 11
Description: Soil sampling
View: North
Date: 11/25/24





Photograph 12
Description: Soil sampling
View: East
Date: 11/25/24




APPENDIX C

Lithologic Soil Sampling Logs

		Sample Name: BH01		Date: 07/16/2024				
		Site Name: Grumpy Cat 15 CTB 2						
		Incident Number: nAPP2416957653						
		Job Number: 03A1987132						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.309658, -103.664983			Logged By: Brandon Deal		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH01	0	0	CCHE	Caliche with gravel, Light Tan , Loose, Dry, Non-Cohesive
M	>3,561		N	BH01	1	1		
M	>3,561		N	BH01	2	2	SW	Red Sand, Non Cohesive, Thick, Non Plastic, Moist
M	1,220		N	BH01	3	3		
M	>3,561		N	BH01	4	4		
M	2749		N	BH01	5	5	CCHE	Moist, Caliche, No Stain, Non Plastic, Non Pliable
M	1579		N	BH01	6	6		
M	823		N	BH01	7	7		
M	554		N	BH01	8	8		
M	ND		N	BH01	9	9		
Total Depth 9 ft.								

								Sample Name: BH02		7/16/2024	
								Site Name: Grumpy Cat 15 CTB 2			
								Incident Number: nAPP2416957653			
								Job Number: 03A1987132			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Brandon Deal		Method: Hand Auger	
Coordinates: 32.309593, -103.665082								Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			Y	BH02	0	0	CCHE	Tan loose gravel, Staining, Non Cohesive			
M	3,561		N	BH02	1	1	SW	Red Sand, Non-cohesive, Moist			
M	>3,561		N	BH02	2	2					
M	2,016		N	BH02	3	3					
M	ND		N	BH02	4	4	CCHE	Moist, Caliche, No Stain, Non Plastic, Non Pliable			
Total Depth 4 ft.											

								Sample Name: BH03		Date: 07/16/2024	
								Site Name: Grumpy Cat 15 CTB 2			
								Incident Number: nAPP2416957653			
								Job Number: 03A1987132			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Brandon Deal		Method: Hand Auger	
Coordinates: 32.30949, -103.66488								Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			Y	BH03	0	0	CCHE	Light brown Caliche with gravel, Non-cohesive			
M	3,298		N	BH03	1	1	SW	Red Sand, No Odor, Non-cohesive			
M	1,635		N	BH03	2	2					
M	>3,561		N	BH03	3	3					
M	2570		N	BH03	4	4	SP	Light Brown poorly graded sand with gravel. Non-cohesive			
M	162		N	BH03	5	5	CCHE	Moist, Caliche, No Stain, Non Plastic, Non Pliable			
Total Depth 5 ft.											



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Grumpy Cat 15 CTB 2

Work Order: E407018

Job Number: 20023-0002

Received: 7/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/10/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/10/24

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



Project Name: Grumpy Cat 15 CTB 2
Workorder: E407018
Date Received: 7/3/2024 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2024 10:00:00AM, under the Project Name: Grumpy Cat 15 CTB 2.

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

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

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

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

Respectfully,

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

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01-0'	5
SS02-0'	6
SS03-0'	7
SS04-0'	8
SS05-0'	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

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grumpy Cat 15 CTB 2 Project Number: 20023-0002 Project Manager: Ashley Giovengo	Reported: 07/10/24 11:42
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E407018-01A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SS02-0'	E407018-02A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SS03-0'	E407018-03A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SS04-0'	E407018-04A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SS05-0'	E407018-05A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grumpy Cat 15 CTB 2 Project Number: 20023-0002 Project Manager: Ashley Giovengo	Reported: 7/10/2024 11:42:50AM
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SS01-0'
E407018-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427034	
Benzene	ND	0.0250	1	07/03/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/09/24	
Toluene	ND	0.0250	1	07/03/24	07/09/24	
o-Xylene	ND	0.0250	1	07/03/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.0 %	70-130		07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
Surrogate: n-Nonane	93.5 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427050	
Chloride	ND	20.0	1	07/03/24	07/04/24	



Sample Data

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

Project Name: Grumpy Cat 15 CTB 2
Project Number: 20023-0002
Project Manager: Ashley Giovengo

Reported:
7/10/2024 11:42:50AM

SS02-0'

E407018-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427034	
Benzene	ND	0.0250	1	07/03/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/09/24	
Toluene	ND	0.0250	1	07/03/24	07/09/24	
o-Xylene	ND	0.0250	1	07/03/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	98.8 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2427050	
Chloride	82.7	20.0	1	07/03/24	07/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grumpy Cat 15 CTB 2 Project Number: 20023-0002 Project Manager: Ashley Giovengo	Reported: 7/10/2024 11:42:50AM
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SS03-0'

E407018-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427034	
Benzene	ND	0.0250	1	07/03/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/09/24	
Toluene	ND	0.0250	1	07/03/24	07/09/24	
o-Xylene	ND	0.0250	1	07/03/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.7 %	70-130		07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
Surrogate: n-Nonane	91.4 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427050	
Chloride	ND	20.0	1	07/03/24	07/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grumpy Cat 15 CTB 2 Project Number: 20023-0002 Project Manager: Ashley Giovengo	Reported: 7/10/2024 11:42:50AM
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SS04-0'

E407018-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427034	
Benzene	ND	0.0250	1	07/03/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/09/24	
Toluene	ND	0.0250	1	07/03/24	07/09/24	
o-Xylene	ND	0.0250	1	07/03/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.2 %	70-130		07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
Surrogate: n-Nonane	95.9 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427050	
Chloride	246	20.0	1	07/03/24	07/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grumpy Cat 15 CTB 2 Project Number: 20023-0002 Project Manager: Ashley Giovengo	Reported: 7/10/2024 11:42:50AM
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SS05-0'

E407018-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427034	
Benzene	ND	0.0250	1	07/03/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/09/24	
Toluene	ND	0.0250	1	07/03/24	07/09/24	
o-Xylene	ND	0.0250	1	07/03/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
Surrogate: n-Nonane	88.5 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427050	
Chloride	184	20.0	1	07/03/24	07/04/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Grumpy Cat 15 CTB 2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	20023-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/10/2024 11:42:50AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427034-BLK1) Prepared: 07/03/24 Analyzed: 07/08/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.91		8.00		86.3	70-130			

LCS (2427034-BS1) Prepared: 07/03/24 Analyzed: 07/08/24

Benzene	5.52	0.0250	5.00		110	70-130			
Ethylbenzene	5.28	0.0250	5.00		106	70-130			
Toluene	5.43	0.0250	5.00		109	70-130			
o-Xylene	5.25	0.0250	5.00		105	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.06		8.00		88.2	70-130			

Matrix Spike (2427034-MS1) Source: E407017-10 Prepared: 07/03/24 Analyzed: 07/08/24

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.83	0.0250	5.00	ND	96.5	61-133			
Toluene	4.96	0.0250	5.00	ND	99.2	61-130			
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131			
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.9	70-130			

Matrix Spike Dup (2427034-MSD1) Source: E407017-10 Prepared: 07/03/24 Analyzed: 07/08/24

Benzene	4.86	0.0250	5.00	ND	97.2	54-133	3.58	20	
Ethylbenzene	4.64	0.0250	5.00	ND	92.9	61-133	3.85	20	
Toluene	4.76	0.0250	5.00	ND	95.3	61-130	3.99	20	
o-Xylene	4.60	0.0250	5.00	ND	91.9	63-131	4.32	20	
p,m-Xylene	9.42	0.0500	10.0	ND	94.2	63-131	3.82	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.4	63-131	3.98	20	
Surrogate: 4-Bromochlorobenzene-PID	6.89		8.00		86.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grumpy Cat 15 CTB 2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	20023-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/10/2024 11:42:50AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427034-BLK1) Prepared: 07/03/24 Analyzed: 07/08/24

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

LCS (2427034-BS2) Prepared: 07/03/24 Analyzed: 07/08/24

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

Matrix Spike (2427034-MS2) Source: E407017-10 Prepared: 07/03/24 Analyzed: 07/08/24

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2427034-MSD2) Source: E407017-10 Prepared: 07/03/24 Analyzed: 07/08/24

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	4.07	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grumpy Cat 15 CTB 2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	20023-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/10/2024 11:42:50AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427041-BLK1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

LCS (2427041-BS1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			

Matrix Spike (2427041-MS1)					Source: E407014-02		Prepared: 07/03/24 Analyzed: 07/03/24		
Diesel Range Organics (C10-C28)	558	50.0	250	282	110	38-132			
Surrogate: n-Nonane	46.1		50.0		92.2	50-200			

Matrix Spike Dup (2427041-MSD1)					Source: E407014-02		Prepared: 07/03/24 Analyzed: 07/03/24		
Diesel Range Organics (C10-C28)	526	50.0	250	282	97.8	38-132	5.81	20	
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grumpy Cat 15 CTB 2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	20023-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/10/2024 11:42:50AM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2427050-BLK1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	ND	20.0							
LCS (2427050-BS1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2427050-MS1)					Source: E407017-02		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2427050-MSD1)					Source: E407017-02		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	252	20.0	250	ND	101	80-120	0.0785	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Grumpy Cat 15 CTB 2	
5400 LBJ Freeway, Suite 1500	Project Number:	20023-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/10/24 11:42

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

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

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



Page 1 of 1



Envirotech Analytical Laboratory

Printed: 7/3/2024 1:12:20PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	07/03/24 10:00	Work Order ID:	E407018
Phone:	(972) 371-5200	Date Logged In:	07/02/24 16:08	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	07/11/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CouierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

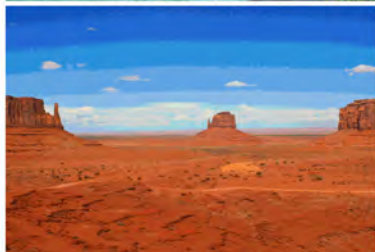
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Grumpy Cat 15 CTB 2

Work Order: E407148

Job Number: 01058-0007

Received: 7/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/24/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/24/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Grumpy Cat 15 CTB 2
Workorder: E407148
Date Received: 7/18/2024 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/18/2024 9:00:00AM, under the Project Name: Grumpy Cat 15 CTB 2.

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

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

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

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

Respectfully,

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Cell: 775-287-1762
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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
BH01-3'	8
BH01-4'	9
BH02-0'	10
BH02-1'	11
BH02-2'	12
BH02-3'	13
BH03-0'	14
BH03-1'	15
BH03-2'	16
BH03-3'	17
QC Summary Data	18
QC - Volatile Organics by EPA 8021B	18
QC - Nonhalogenated Organics by EPA 8015D - GRO	19
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	20
QC - Anions by EPA 300.0/9056A	21
Definitions and Notes	22
Chain of Custody etc.	23

Sample Summary

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/24/24 07:34

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E407148-01A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH01-1'	E407148-02A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH01-2'	E407148-03A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH01-3'	E407148-04A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH01-4'	E407148-05A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH02-0'	E407148-06A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH02-1'	E407148-07A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH02-2'	E407148-08A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH02-3'	E407148-09A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH03-0'	E407148-10A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH03-1'	E407148-11A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH03-2'	E407148-12A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
BH03-3'	E407148-13A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH01-0'
E407148-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	0.0551	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.6 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane	94.8 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	3710	40.0	2	07/18/24	07/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH01-1'

E407148-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.5 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane	95.2 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	4730	100	5	07/18/24	07/18/24	



Sample Data

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

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

Reported:
7/24/2024 7:34:43AM

BH01-2'

E407148-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>93.0 %</i>	<i>70-130</i>		<i>07/18/24</i>	<i>07/20/24</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>96.6 %</i>	<i>70-130</i>		<i>07/18/24</i>	<i>07/20/24</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
<i>Surrogate: n-Nonane</i>	<i>196 %</i>	<i>50-200</i>		<i>07/18/24</i>	<i>07/20/24</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	4050	40.0	2	07/18/24	07/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH01-3'

E407148-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.3 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane	99.7 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	2110	40.0	2	07/18/24	07/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH01-4'

E407148-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
Surrogate: 4-Bromochlorobenzene-PID	93.4 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane	77.2 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	7710	200	10	07/18/24	07/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH02-0'

E407148-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
Surrogate: 4-Bromochlorobenzene-PID	92.6 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.0 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane	92.5 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	41400	2000	100	07/18/24	07/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH02-1'

E407148-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
Surrogate: 4-Bromochlorobenzene-PID	92.7 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane	92.8 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	3260	100	5	07/18/24	07/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH02-2'

E407148-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
Surrogate: 4-Bromochlorobenzene-PID	92.5 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane	92.4 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	3590	40.0	2	07/18/24	07/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH02-3'

E407148-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane	88.6 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	1380	20.0	1	07/18/24	07/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH03-0'

E407148-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	41.1	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
<i>Surrogate: n-Nonane</i>						
	97.4 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	37600	2000	100	07/18/24	07/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH03-1'

E407148-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	2610	100	5	07/18/24	07/18/24	



Sample Data

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

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

Reported:
7/24/2024 7:34:43AM

BH03-2'

E407148-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	1130	40.0	2	07/18/24	07/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:34:43AM
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BH03-3'

E407148-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Benzene	ND	0.0250	1	07/18/24	07/20/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/20/24	
Toluene	ND	0.0250	1	07/18/24	07/20/24	
o-Xylene	ND	0.0250	1	07/18/24	07/20/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/20/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2429091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		07/18/24	07/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2429090	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2429097	
Chloride	3580	40.0	2	07/18/24	07/18/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/24/2024 7:34:43AM

Volatile Organics by EPA 8021B

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
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Blank (2429091-BLK1) Prepared: 07/18/24 Analyzed: 07/20/24

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: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			

LCS (2429091-BS1) Prepared: 07/18/24 Analyzed: 07/20/24

Benzene	4.08	0.0250	5.00		81.6	70-130			
Ethylbenzene	3.88	0.0250	5.00		77.6	70-130			
Toluene	4.00	0.0250	5.00		80.0	70-130			
o-Xylene	3.87	0.0250	5.00		77.3	70-130			
p,m-Xylene	7.88	0.0500	10.0		78.8	70-130			
Total Xylenes	11.7	0.0250	15.0		78.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike (2429091-MS1) Source: E407148-06 Prepared: 07/18/24 Analyzed: 07/23/24

Benzene	5.10	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	4.88	0.0250	5.00	ND	97.6	63-131			
p,m-Xylene	9.91	0.0500	10.0	ND	99.1	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.4	70-130			

Matrix Spike Dup (2429091-MSD1) Source: E407148-06 Prepared: 07/18/24 Analyzed: 07/20/24

Benzene	5.44	0.0250	5.00	ND	109	54-133	6.44	20	
Ethylbenzene	5.19	0.0250	5.00	ND	104	61-133	6.02	20	
Toluene	5.35	0.0250	5.00	ND	107	61-130	6.32	20	
o-Xylene	5.19	0.0250	5.00	ND	104	63-131	6.17	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	5.96	20	
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131	6.03	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/24/2024 7:34:43AM

Nonhalogenated Organics by EPA 8015D - GRO

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
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Blank (2429091-BLK1) Prepared: 07/18/24 Analyzed: 07/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

LCS (2429091-BS2) Prepared: 07/18/24 Analyzed: 07/23/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike (2429091-MS2) Source: E407148-06 Prepared: 07/18/24 Analyzed: 07/20/24

Gasoline Range Organics (C6-C10)	36.1	20.0	50.0	ND	72.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130			

Matrix Spike Dup (2429091-MSD2) Source: E407148-06 Prepared: 07/18/24 Analyzed: 07/20/24

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0	ND	80.0	70-130	10.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/24/2024 7:34:43AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2429090-BLK1)					Prepared: 07/18/24 Analyzed: 07/20/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.4		50.0		101	50-200			

LCS (2429090-BS1)					Prepared: 07/18/24 Analyzed: 07/20/24				
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	52.2		50.0		104	50-200			

Matrix Spike (2429090-MS1)					Source: E407148-06		Prepared: 07/18/24 Analyzed: 07/20/24		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	50.0		50.0		100	50-200			

Matrix Spike Dup (2429090-MSD1)					Source: E407148-06		Prepared: 07/18/24 Analyzed: 07/20/24		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	3.72	20	
Surrogate: n-Nonane	52.9		50.0		106	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/24/2024 7:34:43AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2429097-BLK1)					Prepared: 07/18/24 Analyzed: 07/18/24				
Chloride	ND	20.0							
LCS (2429097-BS1)					Prepared: 07/18/24 Analyzed: 07/18/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2429097-MS1)					Source: E407148-02		Prepared: 07/18/24 Analyzed: 07/18/24		
Chloride	4840	100	250	4730	41.5	80-120			M4
Matrix Spike Dup (2429097-MSD1)					Source: E407148-02		Prepared: 07/18/24 Analyzed: 07/18/24		
Chloride	4940	100	250	4730	81.9	80-120	2.07	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:	Grumpy Cat 15 CTB 2	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/24/24 07:34

- 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.



Chain of Custody

Page 1 of 2

Client Information					Invoice Information			Lab Use Only				TAT				State					
Client: Devon					Company: Devon			Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project: Grumpy Cat 15 CTB 2					Address: 205 F Bender Road #150			E407148		01058-0007					X	X					
Project Manager: Ashley Giovengo					City, State, Zip: Hobbs NM, 88240																
Address: 3122 National Parks Hwy					Phone: (575)748-1838																
City, State, Zip: Carlsbad NM, 88220					Email: dale.woodall@dnv.com																
Phone: 575-988-0055					Miscellaneous: Dale Woodall																
Email: agiovengo@ensolum.com																					
Sample Information										Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA				
															Compliance	Y	or	N			
															PWSID #						
															Remarks						
10:16	7/16/2024	Soil	1	BH01-0'		1						X									
10:25	7/16/2024	Soil	1	BH01-1'		2						X									
10:29	7/16/2024	Soil	1	BH01-2'		3						X									
10:32	7/16/2024	Soil	1	BH01-3'		4						X									
10:52	7/16/2024	Soil	1	BH01-4'		5						X									
11:08	7/16/2024	Soil	1	BH02-0'		6						X									
11:14	7/16/2024	Soil	1	BH02-1'		7						X									
11:18	7/16/2024	Soil	1	BH02-2'		8						X									
11:50	7/16/2024	Soil	1	BH02-3'		9						X									
12:10	7/16/2024	Soil	1	BH03-0'		10						X									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dnv.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																					
Sampled by: _Brandon Deal_																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: (7) N T1 _____ T2 _____ T3 _____ AVG Temp °C 4													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



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Chain of Custody

Page 2 of 2

Client Information				Invoice Information			Lab Use Only				TAT				State			
Client: Devon				Company: Devon			Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Grumpy Cat 15 CTB 2				Address: 205 E Bender Road #150			E407148		0058-0007					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Hobbs NM, 88240														
Address: 3122 National Parks Hwy				Phone: (575)748-1838														
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dv.com														
Phone: 575-988-0055				Miscellaneous: Dale Woodall														
Email: agiovengo@ensolum.com																		
Sample Information																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	EPA Program			
															SDWA	CWA	RCRA	
															Compliance	Y	or N	
															PWSID #			
															Remarks			
12:24	7/16/2024	Soil	1	BH03-1'		11						X						
12:27	7/16/2024	Soil	1	BH03-2'		12						X						
12:33	7/16/2024	Soil	1	BH03-3'		13						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dv.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Brandon Deal																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



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Envirotech Analytical Laboratory

Printed: 7/18/2024 10:25:20AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	07/18/24 09:00	Work Order ID:	E407148
Phone:	(505) 382-1211	Date Logged In:	07/17/24 16:45	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	07/24/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Grumpy Cat 15 CTB 2

Work Order: E410154

Job Number: 01058-0007

Received: 10/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/21/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 10/21/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Grumpy Cat 15 CTB 2
Workorder: E410154
Date Received: 10/16/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/16/2024 8:00:00AM, under the Project Name: Grumpy Cat 15 CTB 2.

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

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

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

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

Respectfully,

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

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

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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
BH01-5'	5
BH01-7'	6
BH01-9'	7
BH02-4'	8
BH03-4'	9
BH03-5'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/21/24 14:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-5'	E410154-01A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
BH01-7'	E410154-02A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
BH01-9'	E410154-03A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
BH02-4'	E410154-04A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
BH03-4'	E410154-05A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
BH03-5'	E410154-06A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/21/2024 2:39:21PM
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BH01-5'
E410154-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID	91.4 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.8 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2442105	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane	87.7 %	50-200		10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2442095	
Chloride	3470	40.0	2	10/16/24	10/17/24	

Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/21/2024 2:39:21PM
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BH01-7'

E410154-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2442105	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane	84.8 %	50-200		10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2442095	
Chloride	398	20.0	1	10/16/24	10/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/21/2024 2:39:21PM
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BH01-9'

E410154-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2442105	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane	70.0 %	50-200		10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2442095	
Chloride	ND	20.0	1	10/16/24	10/17/24	



Sample Data

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

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

Reported:
10/21/2024 2:39:21PM

BH02-4'

E410154-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2442105	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
<i>Surrogate: n-Nonane</i>						
	87.2 %	50-200		10/16/24	10/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2442095	
Chloride	41.7	20.0	1	10/16/24	10/16/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/21/2024 2:39:21PM
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BH03-4'

E410154-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2442105	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane	75.4 %	50-200		10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2442095	
Chloride	2480	40.0	2	10/16/24	10/17/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/21/2024 2:39:21PM
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BH03-5'

E410154-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Benzene	ND	0.0250	1	10/16/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/19/24	
Toluene	ND	0.0250	1	10/16/24	10/19/24	
o-Xylene	ND	0.0250	1	10/16/24	10/19/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2442098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		10/16/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2442105	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane	92.0 %	50-200		10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2442095	
Chloride	59.8	20.0	1	10/16/24	10/17/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/21/2024 2:39:21PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2442098-BLK1) Prepared: 10/16/24 Analyzed: 10/19/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.6	70-130			

LCS (2442098-BS1) Prepared: 10/16/24 Analyzed: 10/19/24

Benzene	4.36	0.0250	5.00		87.2	70-130			
Ethylbenzene	4.62	0.0250	5.00		92.5	70-130			
Toluene	4.60	0.0250	5.00		91.9	70-130			
o-Xylene	4.68	0.0250	5.00		93.5	70-130			
p,m-Xylene	9.38	0.0500	10.0		93.8	70-130			
Total Xylenes	14.1	0.0250	15.0		93.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike (2442098-MS1) Source: E410154-05 Prepared: 10/16/24 Analyzed: 10/19/24

Benzene	4.34	0.0250	5.00	ND	86.7	54-133			
Ethylbenzene	4.55	0.0250	5.00	ND	91.0	61-133			
Toluene	4.54	0.0250	5.00	ND	90.9	61-130			
o-Xylene	4.59	0.0250	5.00	ND	91.8	63-131			
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2442098-MSD1) Source: E410154-05 Prepared: 10/16/24 Analyzed: 10/19/24

Benzene	4.31	0.0250	5.00	ND	86.2	54-133	0.647	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	0.403	20	
Toluene	4.54	0.0250	5.00	ND	90.7	61-130	0.128	20	
o-Xylene	4.61	0.0250	5.00	ND	92.1	63-131	0.285	20	
p,m-Xylene	9.27	0.0500	10.0	ND	92.7	63-131	0.690	20	
Total Xylenes	13.9	0.0250	15.0	ND	92.5	63-131	0.555	20	
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.7	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/21/2024 2:39:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2442098-BLK1) Prepared: 10/16/24 Analyzed: 10/19/24

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

LCS (2442098-BS2) Prepared: 10/16/24 Analyzed: 10/19/24

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0		81.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.8	70-130			

Matrix Spike (2442098-MS2) Source: E410154-05 Prepared: 10/16/24 Analyzed: 10/19/24

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike Dup (2442098-MSD2) Source: E410154-05 Prepared: 10/16/24 Analyzed: 10/19/24

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.6	70-130	11.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/21/2024 2:39:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2442105-BLK1) Prepared: 10/16/24 Analyzed: 10/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.1		50.0		94.1	50-200			

LCS (2442105-BS1) Prepared: 10/16/24 Analyzed: 10/17/24

Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	47.5		50.0		95.0	50-200			

Matrix Spike (2442105-MS1) Source: E410154-02 Prepared: 10/16/24 Analyzed: 10/17/24

Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132			
Surrogate: n-Nonane	42.7		50.0		85.3	50-200			

Matrix Spike Dup (2442105-MSD1) Source: E410154-02 Prepared: 10/16/24 Analyzed: 10/17/24

Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	4.56	20	
Surrogate: n-Nonane	45.7		50.0		91.4	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/21/2024 2:39:21PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2442095-BLK1)					Prepared: 10/16/24 Analyzed: 10/16/24				
Chloride	ND	20.0							
LCS (2442095-BS1)					Prepared: 10/16/24 Analyzed: 10/16/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2442095-MS1)					Source: E410154-04		Prepared: 10/16/24 Analyzed: 10/16/24		
Chloride	298	20.0	250	41.7	102	80-120			
Matrix Spike Dup (2442095-MSD1)					Source: E410154-04		Prepared: 10/16/24 Analyzed: 10/16/24		
Chloride	306	20.0	250	41.7	106	80-120	2.56	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:	Grumpy Cat 15 CTB 2	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/21/24 14:39

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

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

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



Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Devon				Company: Devon				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: <i>Grumpy Cat 15CTB2</i>				Address: 205 E Bender Road #150				<i>E410154</i>		<i>01058-0007</i>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Project Manager: Ashley Gioveno				City, State, Zip: Hobbs NM, 88240															
Address: 3122 National Parks Hwy				Phone: (575)748-1838															
City, State, Zip: Carlsbad NM, 88220				Email: dale.woodall@dvn.com															
Phone: 575-988-0055				Miscellaneous: Dale Woodall															
Email: agioveno@ensolum.com																			
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
9:55	10/14/24	soil	1	BH01-5'		1						<input checked="" type="checkbox"/>							
10:06				↓ 7'		2						<input checked="" type="checkbox"/>							
10:45				↓ 9'		3						<input checked="" type="checkbox"/>							
11:09				BH02-4'		4						<input checked="" type="checkbox"/>							
11:47				BH03-4'		5						<input checked="" type="checkbox"/>							
11:52				↓ 5'		6						<input checked="" type="checkbox"/>							
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, dale.woodall@dvn.com, chamilton@ensolum.com, iestrella@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: <u>Cole Burton</u> <i>Krael Estrella</i>																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>											
<i>[Signature]</i>		10/15/24	7:31	<i>Michelle Gonzales</i>		10-15-24	0731												
<i>Michelle Gonzales</i>		10-15-24	1615	<i>[Signature]</i>		10-15-24	1615												
<i>[Signature]</i>		10-15-24	2230	<i>[Signature]</i>		10-16-24	0800												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Envirotech Analytical Laboratory

Printed: 10/16/2024 10:52:37AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	10/16/24 08:00	Work Order ID:	E410154
Phone:	(505) 382-1211	Date Logged In:	10/15/24 15:18	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/22/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Grumpy Cat 15 CTB 2

Work Order: E411290

Job Number: 01058-0007

Received: 11/27/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/4/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Grumpy Cat 15 CTB 2
Workorder: E411290
Date Received: 11/27/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/27/2024 6:00:00AM, under the Project Name: Grumpy Cat 15 CTB 2.

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

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

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

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

Respectfully,

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

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS01 - 0.5'	6
FS02 - 0.5'	7
FS03 - 0.5'	8
FS04 - 0.5'	9
FS05 - 0.5'	10
FS06 - 0.5'	11
FS07 - 0.5'	12
FS08 - 0.5'	13
FS09 - 0.5'	14
FS10 - 0.5'	15
FS11 - 0.5'	16
FS12 - 0.5'	17
FS13 - 0.5'	18
FS14 - 0.5'	19
FS15 - 0.5'	20
FS16 - 0.5'	21
FS17 - 0.5'	22
FS18 - 0.5'	23
FS19 - 0.5'	24
FS20 - 0.5'	25

Table of Contents (continued)

FS21 - 0.5'	26
FS22 - 0.5'	27
FS23 - 0.5'	28
FS24 - 0.5'	29
FS25 - 0.5'	30
FS26 - 0.5'	31
FS27 - 0.5'	32
QC Summary Data	33
QC - Volatile Organics by EPA 8021B	33
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
Definitions and Notes	41
Chain of Custody etc.	42

Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/04/24 14:47
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 0.5'	E411290-01A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS02 - 0.5'	E411290-02A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS03 - 0.5'	E411290-03A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS04 - 0.5'	E411290-04A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS05 - 0.5'	E411290-05A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS06 - 0.5'	E411290-06A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS07 - 0.5'	E411290-07A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS08 - 0.5'	E411290-08A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS09 - 0.5'	E411290-09A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS10 - 0.5'	E411290-10A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS11 - 0.5'	E411290-11A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS12 - 0.5'	E411290-12A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS13 - 0.5'	E411290-13A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS14 - 0.5'	E411290-14A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS15 - 0.5'	E411290-15A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS16 - 0.5'	E411290-16A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS17 - 0.5'	E411290-17A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS18 - 0.5'	E411290-18A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS19 - 0.5'	E411290-19A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS20 - 0.5'	E411290-20A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS21 - 0.5'	E411290-21A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS22 - 0.5'	E411290-22A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS23 - 0.5'	E411290-23A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS24 - 0.5'	E411290-24A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS25 - 0.5'	E411290-25A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS26 - 0.5'	E411290-26A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.
FS27 - 0.5'	E411290-27A	Soil	11/25/24	11/27/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported: 12/4/2024 2:47:43PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS01 - 0.5'
E411290-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.1 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.6 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	97.0 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	5640	100	5	12/02/24	12/04/24	



Sample Data

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

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

Reported:
12/4/2024 2:47:43PM

FS02 - 0.5'

E411290-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
<i>Surrogate: n-Nonane</i>						
	99.9 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	3460	40.0	2	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported: 12/4/2024 2:47:43PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS03 - 0.5'
E411290-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	94.5 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.6 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	107 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	5700	100	5	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS04 - 0.5'
E411290-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.2 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	105 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	3110	40.0	2	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS05 - 0.5'
E411290-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.1 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	106 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	3260	40.0	2	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS06 - 0.5'
E411290-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.6 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	106 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	2850	40.0	2	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported: 12/4/2024 2:47:43PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS07 - 0.5'
E411290-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.7 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	98.9 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	17200	200	10	12/02/24	12/04/24	



Sample Data

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

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

Reported:
12/4/2024 2:47:43PM

FS08 - 0.5'

E411290-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.4 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	10100	200	10	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS09 - 0.5'
E411290-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	111 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	1320	40.0	2	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS10 - 0.5'
E411290-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.6 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	1870	40.0	2	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS11 - 0.5'
E411290-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.6 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	108 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	2370	40.0	2	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS12 - 0.5'
E411290-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	94.4 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.5 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	108 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	951	20.0	1	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS13 - 0.5'

E411290-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.4 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	221	20.0	1	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS14 - 0.5'
E411290-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/28/24	
Surrogate: n-Nonane	101 %	50-200		11/27/24	11/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	565	20.0	1	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS15 - 0.5'
E411290-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.2 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/28/24	
Surrogate: n-Nonane	102 %	50-200		11/27/24	11/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	580	20.0	1	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS16 - 0.5'

E411290-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	94.0 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.8 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/28/24	
Surrogate: n-Nonane	110 %	50-200		11/27/24	11/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	2150	40.0	2	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS17 - 0.5'
E411290-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.6 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/28/24	
Surrogate: n-Nonane	108 %	50-200		11/27/24	11/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	2250	40.0	2	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS18 - 0.5'
E411290-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.6 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/28/24	
Surrogate: n-Nonane	102 %	50-200		11/27/24	11/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	1170	20.0	1	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS19 - 0.5'
E411290-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.0 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/28/24	
Surrogate: n-Nonane	101 %	50-200		11/27/24	11/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	865	20.0	1	12/02/24	12/04/24	



Sample Data

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

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

Reported:
12/4/2024 2:47:43PM

FS20 - 0.5'**E411290-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Benzene	ND	0.0250	1	11/27/24	12/02/24	
Ethylbenzene	ND	0.0250	1	11/27/24	12/02/24	
Toluene	ND	0.0250	1	11/27/24	12/02/24	
o-Xylene	ND	0.0250	1	11/27/24	12/02/24	
p,m-Xylene	ND	0.0500	1	11/27/24	12/02/24	
Total Xylenes	ND	0.0250	1	11/27/24	12/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448069	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	12/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		11/27/24	12/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2448073	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/28/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/27/24	11/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2449022	
Chloride	1210	20.0	1	12/02/24	12/04/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS21 - 0.5'
E411290-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Benzene	ND	0.0250	1	11/27/24	11/28/24	
Ethylbenzene	ND	0.0250	1	11/27/24	11/28/24	
Toluene	ND	0.0250	1	11/27/24	11/28/24	
o-Xylene	ND	0.0250	1	11/27/24	11/28/24	
p,m-Xylene	ND	0.0500	1	11/27/24	11/28/24	
Total Xylenes	ND	0.0250	1	11/27/24	11/28/24	
Surrogate: 4-Bromochlorobenzene-PID	85.8 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	11/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2448064	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	93.0 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449005	
Chloride	1800	20.0	1	12/02/24	12/02/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS22 - 0.5'
E411290-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Benzene	ND	0.0250	1	11/27/24	11/28/24	
Ethylbenzene	ND	0.0250	1	11/27/24	11/28/24	
Toluene	ND	0.0250	1	11/27/24	11/28/24	
o-Xylene	ND	0.0250	1	11/27/24	11/28/24	
p,m-Xylene	ND	0.0500	1	11/27/24	11/28/24	
Total Xylenes	ND	0.0250	1	11/27/24	11/28/24	
Surrogate: 4-Bromochlorobenzene-PID	86.0 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	11/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.8 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2448064	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	90.1 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449005	
Chloride	1890	40.0	2	12/02/24	12/02/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS23 - 0.5'
E411290-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Benzene	ND	0.0250	1	11/27/24	11/28/24	
Ethylbenzene	ND	0.0250	1	11/27/24	11/28/24	
Toluene	ND	0.0250	1	11/27/24	11/28/24	
o-Xylene	ND	0.0250	1	11/27/24	11/28/24	
p,m-Xylene	ND	0.0500	1	11/27/24	11/28/24	
Total Xylenes	ND	0.0250	1	11/27/24	11/28/24	
Surrogate: 4-Bromochlorobenzene-PID	85.6 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	11/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.1 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2448064	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	92.9 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449005	
Chloride	1420	20.0	1	12/02/24	12/02/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS24 - 0.5'
E411290-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Benzene	ND	0.0250	1	11/27/24	11/28/24	
Ethylbenzene	ND	0.0250	1	11/27/24	11/28/24	
Toluene	ND	0.0250	1	11/27/24	11/28/24	
o-Xylene	ND	0.0250	1	11/27/24	11/28/24	
p,m-Xylene	ND	0.0500	1	11/27/24	11/28/24	
Total Xylenes	ND	0.0250	1	11/27/24	11/28/24	
Surrogate: 4-Bromochlorobenzene-PID	86.3 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	11/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2448064	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	95.0 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449005	
Chloride	1340	20.0	1	12/02/24	12/02/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS25 - 0.5'
E411290-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Benzene	ND	0.0250	1	11/27/24	11/28/24	
Ethylbenzene	ND	0.0250	1	11/27/24	11/28/24	
Toluene	ND	0.0250	1	11/27/24	11/28/24	
o-Xylene	ND	0.0250	1	11/27/24	11/28/24	
p,m-Xylene	ND	0.0500	1	11/27/24	11/28/24	
Total Xylenes	ND	0.0250	1	11/27/24	11/28/24	
Surrogate: 4-Bromochlorobenzene-PID	85.4 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	11/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.4 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2448064	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/27/24	
Surrogate: n-Nonane	91.6 %	50-200		11/27/24	11/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2449005	
Chloride	1540	20.0	1	12/02/24	12/02/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Grumpy Cat 15 CTB 2 Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/4/2024 2:47:43PM
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FS26 - 0.5'
E411290-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Benzene	ND	0.0250	1	11/27/24	11/28/24	
Ethylbenzene	ND	0.0250	1	11/27/24	11/28/24	
Toluene	ND	0.0250	1	11/27/24	11/28/24	
o-Xylene	ND	0.0250	1	11/27/24	11/28/24	
p,m-Xylene	ND	0.0500	1	11/27/24	11/28/24	
Total Xylenes	ND	0.0250	1	11/27/24	11/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.6 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	11/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2448064	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/28/24	
<i>Surrogate: n-Nonane</i>						
	93.8 %	50-200		11/27/24	11/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2449005	
Chloride	1750	40.0	2	12/02/24	12/02/24	



Sample Data

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

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

Reported:
12/4/2024 2:47:43PM

FS27 - 0.5'

E411290-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Benzene	ND	0.0250	1	11/27/24	11/28/24	
Ethylbenzene	ND	0.0250	1	11/27/24	11/28/24	
Toluene	ND	0.0250	1	11/27/24	11/28/24	
o-Xylene	ND	0.0250	1	11/27/24	11/28/24	
p,m-Xylene	ND	0.0500	1	11/27/24	11/28/24	
Total Xylenes	ND	0.0250	1	11/27/24	11/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.6 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2448070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/24	11/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		11/27/24	11/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2448064	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/24	11/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/24	11/28/24	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		11/27/24	11/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2449005	
Chloride	2240	40.0	2	12/02/24	12/02/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/4/2024 2:47:43PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2448069-BLK1)

Prepared: 11/27/24 Analyzed: 12/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.20		8.00		90.0	70-130			

LCS (2448069-BS1)

Prepared: 11/27/24 Analyzed: 12/02/24

Benzene	5.40	0.0250	5.00		108	70-130			
Ethylbenzene	5.22	0.0250	5.00		104	70-130			
Toluene	5.32	0.0250	5.00		106	70-130			
o-Xylene	5.18	0.0250	5.00		104	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			

LCS Dup (2448069-BSD1)

Prepared: 11/27/24 Analyzed: 12/02/24

Benzene	5.30	0.0250	5.00		106	70-130	1.82	20	
Ethylbenzene	5.16	0.0250	5.00		103	70-130	1.23	20	
Toluene	5.25	0.0250	5.00		105	70-130	1.38	20	
o-Xylene	5.14	0.0250	5.00		103	70-130	0.856	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	0.994	20	
Total Xylenes	15.6	0.0250	15.0		104	70-130	0.948	20	
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/4/2024 2:47:43PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2448070-BLK1) Prepared: 11/27/24 Analyzed: 11/27/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.90		8.00		86.3	70-130			

LCS (2448070-BS1) Prepared: 11/27/24 Analyzed: 11/27/24

Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	4.83	0.0250	5.00		96.7	70-130			
Toluene	4.96	0.0250	5.00		99.2	70-130			
o-Xylene	4.82	0.0250	5.00		96.5	70-130			
p,m-Xylene	9.80	0.0500	10.0		98.0	70-130			
Total Xylenes	14.6	0.0250	15.0		97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.99		8.00		87.3	70-130			

LCS Dup (2448070-BSD1) Prepared: 11/27/24 Analyzed: 11/27/24

Benzene	5.27	0.0250	5.00		105	70-130	4.05	20	
Ethylbenzene	5.04	0.0250	5.00		101	70-130	4.24	20	
Toluene	5.17	0.0250	5.00		103	70-130	4.19	20	
o-Xylene	5.03	0.0250	5.00		101	70-130	4.21	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	4.18	20	
Total Xylenes	15.3	0.0250	15.0		102	70-130	4.19	20	
Surrogate: 4-Bromochlorobenzene-PID	6.89		8.00		86.2	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/4/2024 2:47:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2448069-BLK1) Prepared: 11/27/24 Analyzed: 12/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			

LCS (2448069-BS2) Prepared: 11/27/24 Analyzed: 12/02/24

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0		96.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

LCS Dup (2448069-BSD2) Prepared: 11/27/24 Analyzed: 12/02/24

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0		100	70-130	4.28	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/4/2024 2:47:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2448070-BLK1) Prepared: 11/27/24 Analyzed: 11/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.6	70-130			

LCS (2448070-BS2) Prepared: 11/27/24 Analyzed: 11/28/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			

LCS Dup (2448070-BSD2) Prepared: 11/27/24 Analyzed: 11/28/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130	0.326	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/4/2024 2:47:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2448064-BLK1)					Prepared: 11/27/24 Analyzed: 11/27/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.2		50.0		104	50-200			

LCS (2448064-BS1)					Prepared: 11/27/24 Analyzed: 11/27/24				
Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			

LCS Dup (2448064-BSD1)					Prepared: 11/27/24 Analyzed: 11/27/24				
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132	2.27	20	
Surrogate: n-Nonane	47.8		50.0		95.6	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/4/2024 2:47:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2448073-BLK1) Prepared: 11/27/24 Analyzed: 11/27/24

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

LCS (2448073-BS1) Prepared: 11/27/24 Analyzed: 11/27/24

Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

Matrix Spike (2448073-MS1) Source: E411290-08 Prepared: 11/27/24 Analyzed: 11/27/24

Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike Dup (2448073-MSD1) Source: E411290-08 Prepared: 11/27/24 Analyzed: 11/27/24

Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	4.54	20	
Surrogate: n-Nonane	51.7		50.0		103	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/4/2024 2:47:43PM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2449005-BLK1)					Prepared: 12/02/24 Analyzed: 12/02/24				
Chloride	ND	20.0							
LCS (2449005-BS1)					Prepared: 12/02/24 Analyzed: 12/02/24				
Chloride	251	20.0	250		100	90-110			
LCS Dup (2449005-BSD1)					Prepared: 12/02/24 Analyzed: 12/02/24				
Chloride	250	20.0	250		100	90-110	0.0958	20	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Grumpy Cat 15 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/4/2024 2:47:43PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2449022-BLK1)					Prepared: 12/02/24 Analyzed: 12/04/24				
Chloride	ND	20.0							
LCS (2449022-BS1)					Prepared: 12/02/24 Analyzed: 12/04/24				
Chloride	258	20.0	250		103	90-110			
LCS Dup (2449022-BSD1)					Prepared: 12/02/24 Analyzed: 12/04/24				
Chloride	258	20.0	250		103	90-110	0.213	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:	Grumpy Cat 15 CTB 2	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	12/04/24 14:47

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



Chain of Custody

Page 1 of 3

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Devon				Company: Devon				Lab WO# E 411290				Job Number D058-0007				1D 2D 3D Std X			
Project: Grumpy Cat 15 CTB 2				Address: 5315 Buena Vista Dr												NM CO UT TX X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: (575)689-7597															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@divn.com															
Phone: 575-988-0055				Miscellaneous: Jim Raley															
Email: agiovengo@ensolum.com																			
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
9:20	11/25/2024	S	1	FS01 - 0.5'		1						X							
9:24	11/25/2024	S	1	FS02 - 0.5'		2						X							
9:28	11/25/2024	S	1	FS03 - 0.5'		3						X							
9:32	11/25/2024	S	1	FS04 - 0.5'		4						X							
9:37	11/25/2024	S	1	FS05 - 0.5'		5						X							
9:42	11/25/2024	S	1	FS06 - 0.5'		6						X							
9:49	11/25/2024	S	1	FS07 - 0.5'		7						X							
9:53	11/25/2024	S	1	FS08 - 0.5'		8						X							
9:57	11/25/2024	S	1	FS09 - 0.5'		9						X							
10:02	11/25/2024	S	1	FS10 - 0.5'		10						X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@divn.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Bowan Simmons																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech

Chain of Custody

Page 2 of 3

Client Information					Invoice Information			Lab Use Only				TAT				State					
Client: Devon					Company: Devon			Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project: Grumpy Cat 15 CTB 2					Address: 5315 Buena Vista Dr			E411290		01058007					X	X					
Project Manager: Ashley Giovengo					City, State, Zip: Carlsbad NM, 88220																
Address: 3122 National Parks Hwy					Phone: (575)689-7597																
City, State, Zip: Carlsbad NM, 88220					Email: jim.raley@divn.com																
Phone: 575-988-0055					Miscellaneous: Jim Raley																
Email: agiovengo@ensolum.com																					
Sample Information										Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ.1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	PWSID #		
10:05	11/25/2024	S	1	FS11 - 0.5'		11						X									
10:09	11/25/2024	S	1	FS12 - 0.5'		12						X									
10:15	11/25/2024	S	1	FS13 - 0.5'		13						X									
10:18	11/25/2024	S	1	FS14 - 0.5'		14						X									
10:22	11/25/2024	S	1	FS15 - 0.5'		15						X									
10:27	11/25/2024	S	1	FS16 - 0.5'		16						X									
11:56	11/25/2024	S	1	FS17 - 0.5'		17						X									
11:59	11/25/2024	S	1	FS18 - 0.5'		18						X									
12:01	11/25/2024	S	1	FS19 - 0.5'		19						X									
12:05	11/25/2024	S	1	FS20 - 0.5'		20						X									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@divn.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																					
Sampled by: Bowan Simmons																					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days									
[Signature]		11/26/24		10:00		Michelle Gonzales		11-26-24		1000											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only									
Michelle Gonzales		11-26-24		1630		[Signature]		11-26-24		1730		Received on ice: (Y) / N									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____									
[Signature]		11-26-24		2400		Caitlin Mann		11-27-24		10:00		AVG Temp °C 4									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



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Page 125 of 151

Page 43 of 45

Received by: OCD: 12/16/2024 12:20:28 PM

Released to Imaging: 1/15/2025 2:17:01 PM

Chain of Custody

Page 3 of 3

Client Information				Invoice Information		Lab Use Only		TAT				State									
Client: Devon				Company: Devon		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX				
Project: Grumpy Cat 15 CTB 2				Address: 5315 Buena Vista Dr		E411290		010580007					X	X							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																	
Address: 3122 National Parks Hwy				Phone: (575)689-7597										EPA Program							
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com										SDWA				CWA	RCRA		
Phone: 575-988-0055				Miscellaneous: Jim Raley										Compliance				Y	or	N	
Email: agiovengo@ensolum.com														PWSID #							
Sample Information																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Remarks						
12:08	11/25/2024	S	1	FS21 - 0.5'		21						X									
12:11	11/25/2024	S	1	FS22 - 0.5'		22						X									
12:15	11/25/2024	S	1	FS23 - 0.5'		23						X									
12:17	11/25/2024	S	1	FS24 - 0.5'		24						X									
12:19	11/25/2024	S	1	FS25 - 0.5'		25						X									
12:23	11/25/2024	S	1	FS26 - 0.5'		26						X									
12:26	11/25/2024	S	1	FS27 - 0.5'		27						X									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																					
Sampled by: Bowan Simmons																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days													
[Signature]		11/26/24	10:00	Michelle Gonzales		11-26-24	1000	<div>Lab Use Only</div> <div>Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N</div> <div>T1 _____ T2 _____ T3 _____</div> <div>AVG Temp °C 4</div>													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Michelle Gonzales		11-26-24	1630	[Signature]		11-26-24	1730														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
[Signature]		11-26-24	2400	[Signature]		11-27-24	10:00														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



envirotech

Envirotech Analytical Laboratory

Printed: 11/27/2024 10:55:04AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	11/27/24 06:00	Work Order ID:	E411290
Phone:	(505) 382-1211	Date Logged In:	11/26/24 17:41	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	12/05/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX E

NMOCD Notifications

From: [Rodgers, Scott, EMNRD](#)
To: [Ashley Giovengo](#); [Woodall, Dale](#); [Bratcher, Michael, EMNRD](#)
Cc: [Cole Burton](#); [Chad Hamilton](#)
Subject: RE: [EXTERNAL] Extension Request - Grumpy Cat 15 CTB 2 - Incident Number nAPP2416957653
Date: Thursday, September 12, 2024 2:18:05 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to December 15, 2024 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, September 12, 2024 1:42 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Woodall, Dale <Dale.Woodall@dvn.com>;

Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

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

Subject: [EXTERNAL] Extension Request - Grumpy Cat 15 CTB 2 - Incident Number nAPP2416957653

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 September 16, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Grumpy Cat 15 CTB 2 (Site) (Incident Number nAPP2416957653). The release occurred on June 06, 2024, and lateral delineation sampling in accordance with the strictest Closure Criteria has been completed at the Site. Ensolum personnel advanced three boreholes (BH01 through BH03) within the release extent, however we will need to return to the Site to advance the boreholes with mechanical equipment. In addition, Devon intends to complete a depth to water boring within a 0.5-mile radius of the Site. Devon intends to submit a remediation work plan or closure report, following excavation of the subject matter release and upon receiving final laboratory analytical results from confirmation sampling activities. Devon respectfully requests an extension until December 15, 2024.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

"Your authenticity is your superpower." – Unknown

District I
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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 355257

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 355257
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GRUMPY CAT 15 CTB 2
Date Release Discovered	06/17/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 23 BBL Recovered: 20 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	LO found a pinhole leak on a 6" steel main water line. 22.6 bbls spilled onto pad. 20 bbls recovered. Facility was shut in to stop the leak.

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QUESTIONS, Page 2

Action 355257

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 355257
	Action Type: [NOTIFY] Notification Of Release (NOR)

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. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 355257

ACKNOWLEDGMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 355257
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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CONDITIONS

Action 355257

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 355257
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
wdale	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	6/17/2024

GRUMPY CAT 15 CTB 2

6/17/2024

OCD INCIDENT nAPP2416957653

Contaminated Soil measurement			Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)	Length(Ft)	Width(Ft)	Depth(Ft)
40	30.000	0.042	50	60.000	0.021
Cubic Feet of Soil Impacted		50.400	Cubic Feet of Soil Impacted		63.000
Barrels of Soil Impacted		8.98	Barrels of Soil Impacted		11.23
Soil Type		Clay/Sand	Soil Type		Clay
Barrels of Oil Assuming 100% Saturation		1.35	Barrels of Oil Assuming 100% Saturation		1.12
Saturation	Fluid present with shovel/backhoe		Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		1.35	Estimated Barrels of Oil Released		1.12
Free Standing Fluid Only			Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)	Length(Ft)	Width(Ft)	Depth(Ft)
40	30.000	0.042	50	60.000	0.021
Standing fluid		8.964	Standing fluid		11.205
		10.312	Total fluids spilled		12.328

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QUESTIONS

Action 355427

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 355427
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2416957653
Incident Name	NAPP2416957653 GRUMPY CAT 15 CTB 2 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2123647682] GRUMPY CAT 15 CTB 2

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GRUMPY CAT 15 CTB 2
Date Release Discovered	06/17/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 23 BBL Recovered: 20 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	LO found a pinhole leak on a 6" steel main water line. 22.6 bbls spilled onto pad. 20 bbls recovered. Facility was shut in to stop the leak.

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QUESTIONS, Page 2

Action 355427

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 355427
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/18/2024
--	--

District I

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 355427

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 355427
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

Remediation Plan

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

Requesting a remediation plan approval with this submission	No
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.	

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

State of New Mexico
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CONDITIONS

Action 355427

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 355427
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	6/18/2024

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QUESTIONS

Action 405605

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405605
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2416957653
Incident Name	NAPP2416957653 GRUMPY CAT 15 CTB 2 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123647682] GRUMPY CAT 15 CTB 2

Location of Release Source	
Site Name	GRUMPY CAT 15 CTB 2
Date Release Discovered	06/17/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,345
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/25/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	32.309235, -103.664658
Please provide any information necessary for navigation to sampling site	Please Contact Bowan Simmons @ 575-302-3431

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CONDITIONS

Action 405605

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405605
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/21/2024

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QUESTIONS

Action 405607

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405607
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2416957653
Incident Name	NAPP2416957653 GRUMPY CAT 15 CTB 2 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123647682] GRUMPY CAT 15 CTB 2

Location of Release Source	
Site Name	GRUMPY CAT 15 CTB 2
Date Release Discovered	06/17/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,345
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/26/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	32.309235, -103.664658
Please provide any information necessary for navigation to sampling site	Please Contact Bowan Simmons @ 575-302-3431

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CONDITIONS

Action 405607

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405607
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/21/2024

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QUESTIONS

Action 411832

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 411832
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2416957653
Incident Name	NAPP2416957653 GRUMPY CAT 15 CTB 2 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2123647682] GRUMPY CAT 15 CTB 2

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GRUMPY CAT 15 CTB 2
Date Release Discovered	06/17/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 23 BBL Recovered: 20 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	LO found a pinhole leak on a 6" steel main water line. 22.6 bbls spilled onto pad. 20 bbls recovered. Facility was shut in to stop the leak.

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QUESTIONS, Page 2

Action 411832

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 411832
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/18/2024
--	--

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QUESTIONS, Page 3

Action 411832

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 411832
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

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

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	41400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	41
GRO+DRO (EPA SW-846 Method 8015M)	41
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	11/21/2024
On what date will (or did) the final sampling or liner inspection occur	11/25/2024
On what date will (or was) the remediation complete(d)	11/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	5345
What is the estimated volume (in cubic yards) that will be remediated	120

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

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

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QUESTIONS, Page 4

Action 411832

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 411832
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(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	OWL LANDFILL JAL [JEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 12/13/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 411832

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 411832
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 411832

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 411832
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	405607
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/26/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	5345

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5345
What was the total volume (cubic yards) remediated	120
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	N/A

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 12/13/2024
--	--

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QUESTIONS, Page 7

Action 411832

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 411832
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 411832

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 411832
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	1/15/2025
scott.rodgers	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	1/15/2025
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	1/15/2025